



Solve each problem.

Answers

1)  $77 + (83 + 15)$

1. \_\_\_\_\_

2)  $(65 - 9) + 97$

2. \_\_\_\_\_

3)  $7 \times (14 - 4)$

3. \_\_\_\_\_

4)  $(47 + 11) \div 4$

4. \_\_\_\_\_

5)  $(21 \div 7) - 3$

5. \_\_\_\_\_

6)  $(4 \times 8) + 70$

6. \_\_\_\_\_

7)  $19 + (30 \div 3)$

7. \_\_\_\_\_

8)  $186 - (50 + 57)$

8. \_\_\_\_\_

9)  $133 - (2 \times 8)$

9. \_\_\_\_\_

10)  $18 + (93 - 62)$

10. \_\_\_\_\_

11)  $(9 + 2) \times 4$

11. \_\_\_\_\_

12)  $26 \div (9 - 6)$

12. \_\_\_\_\_

13)  $645 - (69 - 1)$

13. \_\_\_\_\_

14)  $(59 + 17) + 90$

14. \_\_\_\_\_

15)  $(86 - 73) \times 2$

15. \_\_\_\_\_

16)  $22 + (8 \times 8)$

16. \_\_\_\_\_

17)  $(83 - 19) \div 4$

17. \_\_\_\_\_

18)  $(7 \times 5) \div 3$

18. \_\_\_\_\_

19)  $3 \times (7 + 3)$

19. \_\_\_\_\_

20)  $58 \div (8 + 2)$

20. \_\_\_\_\_



Solve each of the problems.

Answers

1)  $(70 \div 10) - 2 =$  \_\_\_\_\_

1. \_\_\_\_\_

2)  $(6 + 10) \times 6 =$  \_\_\_\_\_

2. \_\_\_\_\_

3)  $(16 - 15) \times 4 =$  \_\_\_\_\_

3. \_\_\_\_\_

4)  $(9 \times 10) \div 8 =$  \_\_\_\_\_

4. \_\_\_\_\_

5)  $(1 + 5) + 2 =$  \_\_\_\_\_

5. \_\_\_\_\_

6)  $(35 \div 7) \times 6 =$  \_\_\_\_\_

6. \_\_\_\_\_

7)  $(8 \times 9) + 4 =$  \_\_\_\_\_

7. \_\_\_\_\_

8)  $(10 \times 9) - 82 =$  \_\_\_\_\_

8. \_\_\_\_\_

9)  $(7 \times 8) \times 10 =$  \_\_\_\_\_

9. \_\_\_\_\_

10)  $(15 - 4) - 4 =$  \_\_\_\_\_

10. \_\_\_\_\_

11)  $(13 - 1) + 1 =$  \_\_\_\_\_

11. \_\_\_\_\_

12)  $(20 \div 2) + 10 =$  \_\_\_\_\_

12. \_\_\_\_\_

13)  $(40 - 4) \div 6 =$  \_\_\_\_\_

13. \_\_\_\_\_

14)  $(3 + 5) \div 2 =$  \_\_\_\_\_

14. \_\_\_\_\_

15)  $(9 + 6) - 3 =$  \_\_\_\_\_

15. \_\_\_\_\_

**Compare the values of each of the digits.****Answers**

1) 962.69

The 6 in the tens place is \_\_\_\_\_ the value of the 6 in the tenths place.

1. \_\_\_\_\_

2) 9,443.2

The 4 in the tens place is \_\_\_\_\_ the value of the 4 in the hundreds place.

2. \_\_\_\_\_

3) 54.45

The 5 in the tens place is \_\_\_\_\_ the value of the 5 in the hundredths place.

3. \_\_\_\_\_

4) 7,279.21

The 2 in the hundreds place is \_\_\_\_\_ the value of the 2 in the tenths place.

5. \_\_\_\_\_

5) 29,392.46

The 9 in the tens place is \_\_\_\_\_ the value of the 9 in the thousands place.

6. \_\_\_\_\_

6) 55.4

The 5 in the ones place is \_\_\_\_\_ the value of the 5 in the tens place.

7. \_\_\_\_\_

7) 668.88

The 6 in the tens place is \_\_\_\_\_ the value of the 6 in the hundreds place.

8. \_\_\_\_\_

8) 8,543.191

The 1 in the tenths place is \_\_\_\_\_ the value of the 1 in the thousandths place.

9. \_\_\_\_\_

9) 53,765.873

The 3 in the thousands place is \_\_\_\_\_ the value of the 3 in the thousandths place.

10. \_\_\_\_\_

10) 93,482.23

The 2 in the ones place is \_\_\_\_\_ the value of the 2 in the tenths place.

11. \_\_\_\_\_

11) 5,528.783

The 8 in the ones place is \_\_\_\_\_ the value of the 8 in the hundredths place.

12. \_\_\_\_\_

12) 418.85

The 8 in the ones place is \_\_\_\_\_ the value of the 8 in the tenths place.

13. \_\_\_\_\_

13) 114.5

The 1 in the tens place is \_\_\_\_\_ the value of the 1 in the hundreds place.



Solve each problem.

- 1) If  $4 \times 8 = 32$  , then  $0.4 \times 0.008 =$  \_\_\_\_\_
- 2) If  $10 \times 8 = 80$  , then  $0.1 \times 0.008 =$  \_\_\_\_\_
- 3) If  $8 \times 8 = 64$  , then  $0.8 \times 0.8 =$  \_\_\_\_\_
- 4) If  $9 \times 10 = 90$  , then  $0.009 \times 0.1 =$  \_\_\_\_\_
- 5) If  $10 \times 5 = 50$  , then  $0.1 \times 0.5 =$  \_\_\_\_\_
- 6) If  $3 \times 6 = 18$  , then  $0.3 \times 0.6 =$  \_\_\_\_\_
- 7) If  $2 \times 6 = 12$  , then  $0.002 \times 0.6 =$  \_\_\_\_\_
- 8) If  $6 \times 8 = 48$  , then  $0.6 \times 0.08 =$  \_\_\_\_\_
- 9) If  $5 \times 10 = 50$  , then  $0.05 \times 0.1 =$  \_\_\_\_\_
- 10) If  $3 \times 6 = 18$  , then  $0.03 \times 0.6 =$  \_\_\_\_\_
- 11) If  $10 \times 6 = 60$  , then  $1 \times 0.006 =$  \_\_\_\_\_
- 12) If  $10 \times 3 = 30$  , then  $1 \times 0.03 =$  \_\_\_\_\_
- 13) If  $4 \times 3 = 12$  , then  $0.04 \times 0.003 =$  \_\_\_\_\_
- 14) If  $10 \times 7 = 70$  , then  $1 \times 0.007 =$  \_\_\_\_\_
- 15) If  $4 \times 7 = 28$  , then  $0.004 \times 0.07 =$  \_\_\_\_\_
- 16) If  $10 \times 3 = 30$  , then  $1 \times 0.03 =$  \_\_\_\_\_
- 17) If  $6 \times 9 = 54$  , then  $0.006 \times 0.9 =$  \_\_\_\_\_
- 18) If  $3 \times 7 = 21$  , then  $0.03 \times 0.07 =$  \_\_\_\_\_
- 19) If  $8 \times 6 = 48$  , then  $0.8 \times 0.6 =$  \_\_\_\_\_
- 20) If  $4 \times 4 = 16$  , then  $0.004 \times 0.004 =$  \_\_\_\_\_

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_



Find the value of the underlined digit.

Answers

Ex) 2 0 . 4

Ex.  $\frac{4}{10}$

Ex) 3 . 9

Ex. 3

1) 8 , 6 4 4 . 5 8

1. \_\_\_\_\_

2) 3 4 4 . 1 8 1

2. \_\_\_\_\_

3) 6 1 . 8 3

3. \_\_\_\_\_

4) 9 5 . 4

4. \_\_\_\_\_

5) 1 5 2 . 4 2

5. \_\_\_\_\_

6) 6 1 8 , 2 5 2 . 7 7 8

6. \_\_\_\_\_

7) 3 , 4 5 5 , 2 8 7 . 3 5 1

7. \_\_\_\_\_

8) 1 , 9 5 3 . 1 7 5

8. \_\_\_\_\_

9) 2 , 9 9 0 . 8 5

9. \_\_\_\_\_

10) 1 3 9 , 9 9 6 . 6

10. \_\_\_\_\_

11) 2 , 1 1 2 . 9 4 9

11. \_\_\_\_\_

12) 4 4 . 5

12. \_\_\_\_\_

13) 8 , 9 5 7 , 3 4 2 . 9

13. \_\_\_\_\_

14) 8 7 7 , 2 1 7 . 3 9

14. \_\_\_\_\_

15) 5 8 , 8 4 6 . 5 2 3

15. \_\_\_\_\_



Determine the answer to the following problems.

Answers

1) If  $9 \times 8 = 72$  , then  $9 \times 800 =$  \_\_\_\_\_

1. \_\_\_\_\_

2) If  $7 \times 3 = 21$  , then  $70 \times 3 =$  \_\_\_\_\_

2. \_\_\_\_\_

3) If  $6 \times 2 = 12$  , then  $6 \times 200 =$  \_\_\_\_\_

3. \_\_\_\_\_

4) If  $3 \times 3 = 9$  , then  $30 \times 3 =$  \_\_\_\_\_

4. \_\_\_\_\_

5) If  $3 \times 4 = 12$  , then  $3 \times 40 =$  \_\_\_\_\_

5. \_\_\_\_\_

6) If  $9 \times 4 = 36$  , then  $900 \times 4 =$  \_\_\_\_\_

6. \_\_\_\_\_

7) If  $7 \times 1 = 7$  , then  $7 \times 10 =$  \_\_\_\_\_

7. \_\_\_\_\_

8) If  $6 \times 9 = 54$  , then  $600 \times 9 =$  \_\_\_\_\_

8. \_\_\_\_\_

9) If  $6 \times 1 = 6$  , then  $6 \times 100 =$  \_\_\_\_\_

9. \_\_\_\_\_

10) If  $2 \times 4 = 8$  , then  $20 \times 4 =$  \_\_\_\_\_

10. \_\_\_\_\_

11) If  $2 \times 6 = 12$  , then  $2 \times 600 =$  \_\_\_\_\_

11. \_\_\_\_\_

12) If  $6 \times 6 = 36$  , then  $600 \times 6 =$  \_\_\_\_\_

12. \_\_\_\_\_

13) If  $7 \times 5 = 35$  , then  $7 \times 50 =$  \_\_\_\_\_

13. \_\_\_\_\_

14) If  $8 \times 3 = 24$  , then  $800 \times 3 =$  \_\_\_\_\_

14. \_\_\_\_\_

15) If  $2 \times 9 = 18$  , then  $2 \times 900 =$  \_\_\_\_\_

15. \_\_\_\_\_

16) If  $3 \times 1 = 3$  , then  $30 \times 1 =$  \_\_\_\_\_

16. \_\_\_\_\_

17) If  $5 \times 4 = 20$  , then  $5 \times 40 =$  \_\_\_\_\_

17. \_\_\_\_\_

18) If  $8 \times 8 = 64$  , then  $800 \times 8 =$  \_\_\_\_\_

18. \_\_\_\_\_

19) If  $8 \times 5 = 40$  , then  $8 \times 500 =$  \_\_\_\_\_

19. \_\_\_\_\_

20) If  $7 \times 4 = 28$  , then  $70 \times 4 =$  \_\_\_\_\_

20. \_\_\_\_\_



Determine the answer to the following problems.

Answers

1) If  $4 \times 7 = 28$  , then  $4 \times 700 =$  \_\_\_\_\_

1. \_\_\_\_\_

2) If  $3 \times 5 = 15$  , then  $30 \times 5 =$  \_\_\_\_\_

2. \_\_\_\_\_

3) If  $5 \times 9 = 45$  , then  $5 \times 9,000 =$  \_\_\_\_\_

3. \_\_\_\_\_

4) If  $9 \times 2 = 18$  , then  $9,000 \times 2 =$  \_\_\_\_\_

4. \_\_\_\_\_

5) If  $5 \times 6 = 30$  , then  $5 \times 60 =$  \_\_\_\_\_

5. \_\_\_\_\_

6) If  $2 \times 9 = 18$  , then  $20 \times 9 =$  \_\_\_\_\_

6. \_\_\_\_\_

7) If  $5 \times 5 = 25$  , then  $5 \times 50 =$  \_\_\_\_\_

7. \_\_\_\_\_

8) If  $5 \times 7 = 35$  , then  $5,000 \times 7 =$  \_\_\_\_\_

8. \_\_\_\_\_

9) If  $4 \times 9 = 36$  , then  $4 \times 90 =$  \_\_\_\_\_

9. \_\_\_\_\_

10) If  $3 \times 2 = 6$  , then  $30 \times 2 =$  \_\_\_\_\_

10. \_\_\_\_\_

11) If  $8 \times 3 = 24$  , then  $8 \times 300 =$  \_\_\_\_\_

11. \_\_\_\_\_

12) If  $7 \times 8 = 56$  , then  $700 \times 8 =$  \_\_\_\_\_

12. \_\_\_\_\_

13) If  $6 \times 4 = 24$  , then  $6 \times 4,000 =$  \_\_\_\_\_

13. \_\_\_\_\_

14) If  $3 \times 1 = 3$  , then  $3,000 \times 1 =$  \_\_\_\_\_

14. \_\_\_\_\_

15) If  $8 \times 2 = 16$  , then  $8 \times 2,000 =$  \_\_\_\_\_

15. \_\_\_\_\_

16) If  $8 \times 7 = 56$  , then  $800 \times 7 =$  \_\_\_\_\_

16. \_\_\_\_\_

17) If  $7 \times 4 = 28$  , then  $7 \times 40 =$  \_\_\_\_\_

17. \_\_\_\_\_

18) If  $4 \times 4 = 16$  , then  $400 \times 4 =$  \_\_\_\_\_

18. \_\_\_\_\_

19) If  $9 \times 1 = 9$  , then  $9 \times 100 =$  \_\_\_\_\_

19. \_\_\_\_\_

20) If  $4 \times 6 = 24$  , then  $40 \times 6 =$  \_\_\_\_\_

20. \_\_\_\_\_



**Determine which choice best show the value written as a numeral.**

**Answers**

- |   |   |
|---|---|
| <p>1) one hundred fifty-five and thirty-four hundredths<br/>                 A. 155.43                  B. 551.43                  C. 551.34                  D. 155.34</p> <p>2) two hundred twelve and seventy-three hundredths<br/>                 A. 212.7                    B. 212.37                  C. 212.73                  D. 212.073</p> <p>3) six hundred twenty-six and fourteen thousandths<br/>                 A. 626.014                  B. 626.0                    C. 626.410                  D. 626.0014</p> <p>4) forty-nine and ninety-eight thousandths<br/>                 A. 94.890                    B. 49.098                    C. 49.0098                  D. 49.890</p> <p>5) ninety-six and seven hundred eighty-five thousandths<br/>                 A. 96.587                    B. 96.0785                  C. 96.785                    D. 69.7</p> <p>6) eight hundred twenty-four and four hundred seventy-nine thousandths<br/>                 A. 428.4                      B. 824.479                  C. 824.00479                  D. 428.974</p> <p>7) eighty-seven and five hundred ninety-eight thousandths<br/>                 A. 78.5                        B. 87.598                    C. 78.59                      D. 87.00598</p> <p>8) nine hundred thirty-nine and nine thousandths<br/>                 A. 939.900                  B. 939.009                  C. 939.9                      D. 939.00</p> <p>9) eighty-six and eighty-four thousandths<br/>                 A. 86.0084                  B. 86.084                    C. 68.480                    D. 86.480</p> <p>10) fifty-four and eight hundred twenty-two thousandths<br/>                 A. 45.822                      B. 54.0822                  C. 54.822                      D. 45.8</p> <p>11) five hundred seventy-three and seven hundred twenty-nine thousandths<br/>                 A. 375.729                    B. 573.0729                  C. 573.729                    D. 573.00729</p> <p>12) two hundred eighty-three and sixty-eight hundredths<br/>                 A. 283.0068                  B. 283.68                    C. 283.068                    D. 283.86</p> <p>13) ninety-one and seventy-five hundredths<br/>                 A. 91.75                        B. 19.57                      C. 19.7                        D. 19.75</p> <p>14) three hundred fifty-six and fifty-five hundredths<br/>                 A. 653.5                        B. 356.0055                  C. 653.55                      D. 356.55</p> <p>15) seventy-five and one hundred eighty-four thousandths<br/>                 A. 75.184                      B. 57.18                      C. 75.481                      D. 75.00184</p> | <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p>7. _____</p> <p>8. _____</p> <p>9. _____</p> <p>10. _____</p> <p>11. _____</p> <p>12. _____</p> <p>13. _____</p> <p>14. _____</p> <p>15. _____</p> |
|---|---|





**Convert each problem to numeric form.**

**Ex)** one hundred fifty-three and fifty-one hundredths

**Answers**

Ex. 153.51

1) one hundred seventy-five and seven hundred twenty-six thousandths

1. \_\_\_\_\_

2) six and three thousandths

2. \_\_\_\_\_

3) sixty-three and one tenth

3. \_\_\_\_\_

4) four hundred thirty-seven and eight hundred twenty-three thousandths

4. \_\_\_\_\_

5) eight hundred fifty-four and ninety-six hundredths

5. \_\_\_\_\_

6) four and eight tenths

6. \_\_\_\_\_

7) three hundred eighty-one and one thousandth

7. \_\_\_\_\_

8) one hundred seventy-five and one hundred fifty-five thousandths

8. \_\_\_\_\_

9) six and eleven hundredths

9. \_\_\_\_\_

10) one and eight tenths

10. \_\_\_\_\_

11) four hundred thirteen and nine hundred forty-one thousandths

11. \_\_\_\_\_

12) four hundred twenty-three and three hundred twelve thousandths

12. \_\_\_\_\_

13) one and twenty-six thousandths

13. \_\_\_\_\_

14) nine hundred seventy-six and five thousandths

14. \_\_\_\_\_

15) four and fourteen hundredths

15. \_\_\_\_\_

16) one and thirty-seven hundredths

16. \_\_\_\_\_

17) one hundred thirteen and two tenths

17. \_\_\_\_\_

18) five hundred sixty-three and seven thousandths

18. \_\_\_\_\_

19) three and one thousandth

19. \_\_\_\_\_

20) four hundred seventy-five and six hundredths

20. \_\_\_\_\_



Use '<', '>' or '=' to compare the numbers.

Answers

- 1) 6.81 \_\_\_\_\_ 6.37
- 2) 6.32 \_\_\_\_\_ 6.5
- 3) 2.216 \_\_\_\_\_ 2.149
- 4) 6.48 \_\_\_\_\_ 6.99
- 5) 5.75 \_\_\_\_\_ 5.750
- 6) 2.59 \_\_\_\_\_ 2.684
- 7) 8.538 \_\_\_\_\_ 8.122
- 8) 6.81 \_\_\_\_\_ 6.1
- 9) 4.2 \_\_\_\_\_ 4.2
- 10) 6.5 \_\_\_\_\_ 4.5
- 11) 5.44 \_\_\_\_\_ 5.57
- 12) 3.56 \_\_\_\_\_ 3.434
- 13) 7.84 \_\_\_\_\_ 7.840
- 14) 3.626 \_\_\_\_\_ 3.626
- 15) 9.9 \_\_\_\_\_ 9.7
- 16) 7.756 \_\_\_\_\_ 7.756
- 17) 9.7 \_\_\_\_\_ 9.924
- 18) 7.0 \_\_\_\_\_ 7.085
- 19) 3.42 \_\_\_\_\_ 4.42
- 20) 5.8 \_\_\_\_\_ 5.80

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_
- 16. \_\_\_\_\_
- 17. \_\_\_\_\_
- 18. \_\_\_\_\_
- 19. \_\_\_\_\_
- 20. \_\_\_\_\_



Round each number to the correct place value.

Answers

- |  |         |       |     |       |
|--|---------|-------|-----|-------|
| 1) Round to the nearest tenth.         | 8.54    | _____ | 1.  | _____ |
| 2) Round to the nearest whole number.  | 99.59   | _____ | 2.  | _____ |
| 3) Round to the nearest tenth.         | 310.286 | _____ | 3.  | _____ |
| 4) Round to the nearest whole number.  | 6.4     | _____ | 4.  | _____ |
| 5) Round to the nearest whole number.  | 6.805   | _____ | 5.  | _____ |
| 6) Round to the nearest tenth.         | 9.725   | _____ | 6.  | _____ |
| 7) Round to the nearest hundredth.     | 118.380 | _____ | 7.  | _____ |
| 8) Round to the nearest tenth.         | 90.69   | _____ | 8.  | _____ |
| 9) Round to the nearest tenth.         | 65.85   | _____ | 9.  | _____ |
| 10) Round to the nearest whole number. | 70.59   | _____ | 10. | _____ |
| 11) Round to the nearest hundredth.    | 76.684  | _____ | 11. | _____ |
| 12) Round to the nearest hundredth.    | 815.755 | _____ | 12. | _____ |
| 13) Round to the nearest tenth.        | 877.71  | _____ | 13. | _____ |
| 14) Round to the nearest hundredth.    | 12.261  | _____ | 14. | _____ |
| 15) Round to the nearest whole number. | 16.4    | _____ | 15. | _____ |
| 16) Round to the nearest whole number. | 95.81   | _____ | 16. | _____ |
| 17) Round to the nearest hundredth.    | 2.408   | _____ | 17. | _____ |
| 18) Round to the nearest hundredth.    | 3.993   | _____ | 18. | _____ |
| 19) Round to the nearest whole number. | 76.3    | _____ | 19. | _____ |
| 20) Round to the nearest hundredth.    | 716.514 | _____ | 20. | _____ |



Solve each problem.

$$\begin{array}{r} 1) \quad 164 \\ \times \quad 39 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 459 \\ \times \quad 15 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 224 \\ \times \quad 92 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 862 \\ \times \quad 79 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 261 \\ \times \quad 76 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 667 \\ \times \quad 89 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 360 \\ \times \quad 11 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 631 \\ \times \quad 43 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 155 \\ \times \quad 51 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 165 \\ \times \quad 73 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 630 \\ \times \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 927 \\ \times \quad 86 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 519 \\ \times \quad 30 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 527 \\ \times \quad 33 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 808 \\ \times \quad 54 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 625 \\ \times \quad 93 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 230 \\ \times \quad 82 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 630 \\ \times \quad 38 \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 670 \\ \times \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 401 \\ \times \quad 44 \\ \hline \end{array}$$

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_

**Convert each problem to numeric form.**

**Ex)**  $70 + 3 + \frac{7}{10} + \frac{7}{100}$

**1)**  $5 + \frac{7}{10} + \frac{3}{100}$

**2)**  $100 + 50 + 3 + \frac{5}{10} + \frac{4}{100}$

**3)**  $6 + \frac{3}{10}$

**4)**  $90 + 1 + \frac{7}{10}$

**5)**  $90 + 1 + \frac{1}{10} + \frac{2}{100}$

**6)**  $50 + 6 + \frac{5}{10}$

**7)**  $5 + \frac{8}{10}$

**8)**  $10 + 1 + \frac{1}{10} + \frac{3}{100}$

**9)**  $200 + 60 + 3 + \frac{7}{10} + \frac{3}{100}$

**10)**  $90 + 3 + \frac{9}{10}$

**11)**  $4 + \frac{7}{10}$

**12)**  $400 + 80 + 2 + \frac{9}{10}$

**13)**  $500 + 90 + 2 + \frac{2}{10} + \frac{1}{100} + \frac{2}{1000}$

**14)**  $800 + 30 + 9 + \frac{1}{10} + \frac{6}{100}$

**15)**  $80 + 8 + \frac{6}{10} + \frac{8}{100}$

**16)**  $800 + 20 + 4 + \frac{7}{10}$

**17)**  $4 + \frac{1}{10}$

**18)**  $7 + \frac{1}{10} + \frac{7}{100} + \frac{6}{1000}$

**19)**  $200 + 20 + 8 + \frac{8}{10} + \frac{9}{100}$

**20)**  $40 + 7 + \frac{2}{10} + \frac{1}{100}$

**Answers**Ex. 73.77

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

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19. \_\_\_\_\_

20. \_\_\_\_\_



Solve each problem.

1)  $2,000 \div 500 =$  \_\_\_\_\_

2)  $35,000 \div 7,000 =$  \_\_\_\_\_

3)  $14,000 \div 7,000 =$  \_\_\_\_\_

4)  $180 \div 60 =$  \_\_\_\_\_

5)  $1,200 \div 600 =$  \_\_\_\_\_

6)  $48,000 \div 6,000 =$  \_\_\_\_\_

7)  $500 \div 500 =$  \_\_\_\_\_

8)  $8,000 \div 2,000 =$  \_\_\_\_\_

9)  $30,000 \div 6,000 =$  \_\_\_\_\_

10)  $360 \div 40 =$  \_\_\_\_\_

11)  $120 \div 30 =$  \_\_\_\_\_

12)  $45,000 \div 5,000 =$  \_\_\_\_\_

13)  $1,400 \div 700 =$  \_\_\_\_\_

14)  $720 \div 90 =$  \_\_\_\_\_

15)  $10,000 \div 2,000 =$  \_\_\_\_\_

16)  $4,000 \div 500 =$  \_\_\_\_\_

17)  $720 \div 80 =$  \_\_\_\_\_

18)  $200 \div 200 =$  \_\_\_\_\_

19)  $63,000 \div 7,000 =$  \_\_\_\_\_

20)  $2,100 \div 300 =$  \_\_\_\_\_

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Solve each problem.

$$\begin{array}{r} 1) \quad 89.61 \\ -26.632 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 29 \\ +27.69 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 71 \\ -12.3 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 26 \\ +13.824 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 51 \\ -38.75 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 54.7 \\ + 9.39 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 63.03 \\ -59.688 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 83 \\ +77.841 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 93 \\ -32.2 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 66 \\ + 8.84 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 33.97 \\ - 8.851 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 48 \\ +44.636 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 98 \\ -69.9 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 10 \\ + 7.1 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 90 \\ -83.0 \\ \hline \end{array}$$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

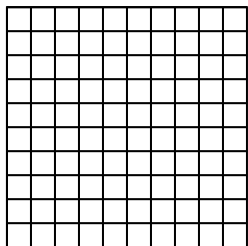
15. \_\_\_\_\_



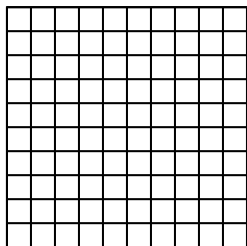
Use the visual model to solve each problem.

Answers

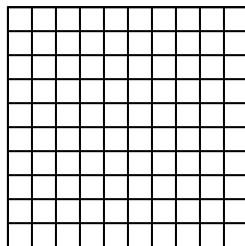
1)  $0.2 \times 0.1 =$



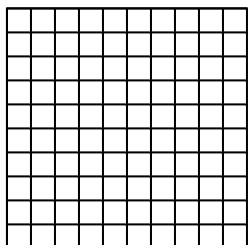
2)  $0.9 \times 0.6 =$



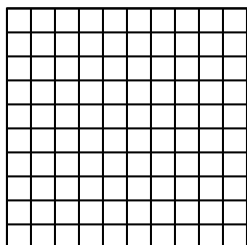
3)  $0.4 \times 0.7 =$



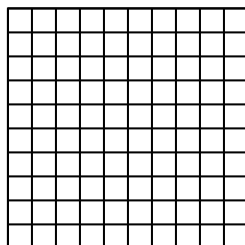
4)  $0.1 \times 0.5 =$



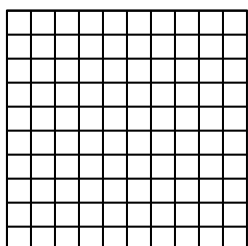
5)  $0.3 \times 0.9 =$



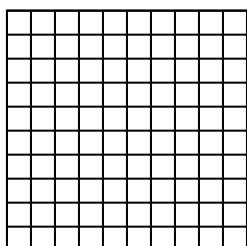
6)  $0.3 \times 0.7 =$



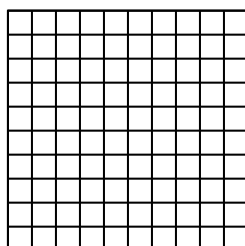
7)  $0.4 \times 0.2 =$



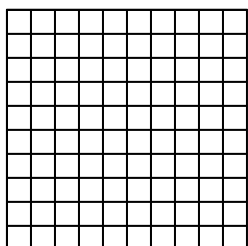
8)  $0.2 \times 0.8 =$



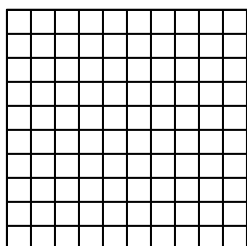
9)  $0.1 \times 0.2 =$



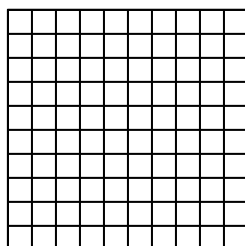
10)  $0.9 \times 0.8 =$



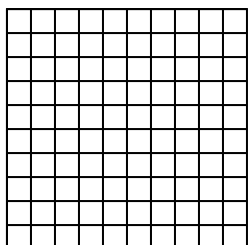
11)  $0.9 \times 0.5 =$



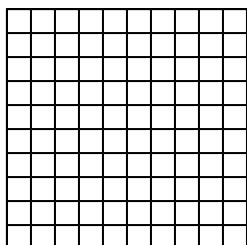
12)  $0.5 \times 0.6 =$



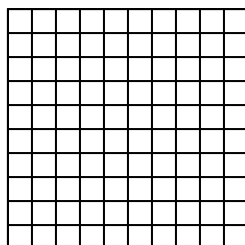
13)  $0.3 \times 0.6 =$



14)  $0.7 \times 0.6 =$



15)  $0.3 \times 0.7 =$



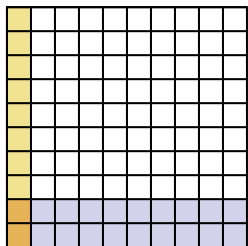
- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_



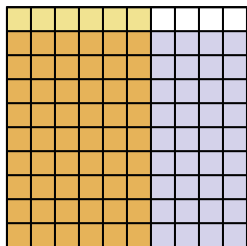


Use the visual model to solve each problem.

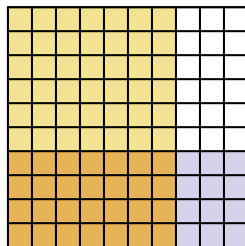
1)  $0.2 \times 0.1 =$



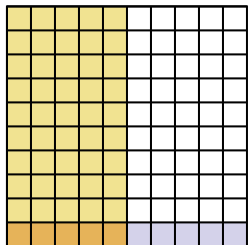
2)  $0.9 \times 0.6 =$



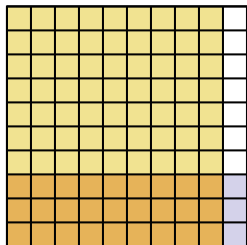
3)  $0.4 \times 0.7 =$



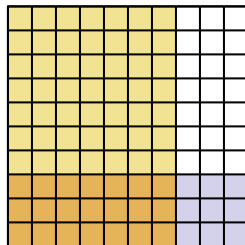
4)  $0.1 \times 0.5 =$



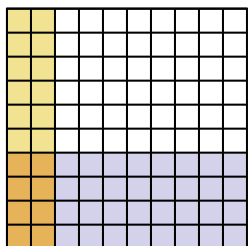
5)  $0.3 \times 0.9 =$



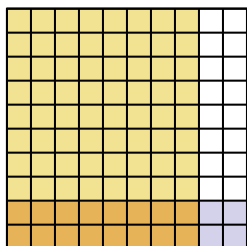
6)  $0.3 \times 0.7 =$



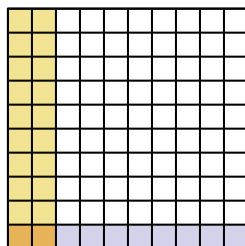
7)  $0.4 \times 0.2 =$



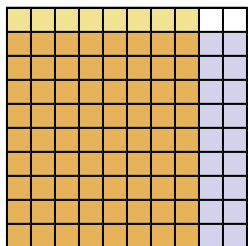
8)  $0.2 \times 0.8 =$



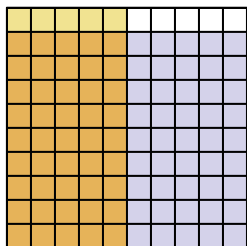
9)  $0.1 \times 0.2 =$



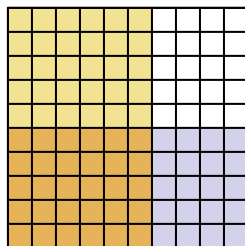
10)  $0.9 \times 0.8 =$



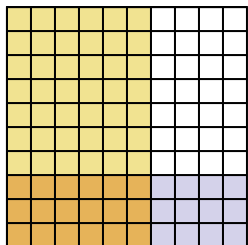
11)  $0.9 \times 0.5 =$



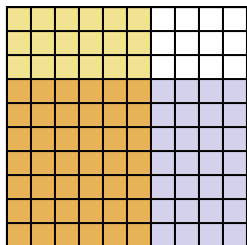
12)  $0.5 \times 0.6 =$



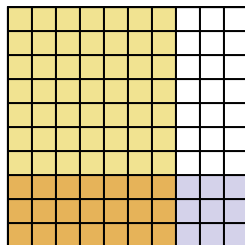
13)  $0.3 \times 0.6 =$



14)  $0.7 \times 0.6 =$



15)  $0.3 \times 0.7 =$



**Answers**

1.  $\frac{2}{100} = 0.02$

2.  $\frac{54}{100} = 0.54$

3.  $\frac{28}{100} = 0.28$

4.  $\frac{5}{100} = 0.05$

5.  $\frac{27}{100} = 0.27$

6.  $\frac{21}{100} = 0.21$

7.  $\frac{8}{100} = 0.08$

8.  $\frac{16}{100} = 0.16$

9.  $\frac{2}{100} = 0.02$

10.  $\frac{72}{100} = 0.72$

11.  $\frac{45}{100} = 0.45$

12.  $\frac{30}{100} = 0.3$

13.  $\frac{18}{100} = 0.18$

14.  $\frac{42}{100} = 0.42$

15.  $\frac{21}{100} = 0.21$



Solve each problem.

Answers

1)  $78.9 - 55.779 =$  \_\_\_\_\_

1. \_\_\_\_\_

2)  $73 + 48.7 =$  \_\_\_\_\_

2. \_\_\_\_\_

3)  $41.3 - 20.65 =$  \_\_\_\_\_

3. \_\_\_\_\_

4)  $46 + 39.5 =$  \_\_\_\_\_

4. \_\_\_\_\_

5)  $72 - 67.01 =$  \_\_\_\_\_

5. \_\_\_\_\_

6)  $65 + 56.8 =$  \_\_\_\_\_

6. \_\_\_\_\_

7)  $58 - 45.183 =$  \_\_\_\_\_

7. \_\_\_\_\_

8)  $79.3 + 10.21 =$  \_\_\_\_\_

8. \_\_\_\_\_

9)  $17 - 1.2 =$  \_\_\_\_\_

9. \_\_\_\_\_

10)  $92 + 8.83 =$  \_\_\_\_\_

10. \_\_\_\_\_

11)  $67.15 - 24.302 =$  \_\_\_\_\_

11. \_\_\_\_\_

12)  $96 + 37.367 =$  \_\_\_\_\_

12. \_\_\_\_\_

**Solve each problem.****Answers**

- 1) Jerry is trying to earn two hundred nine dollars for some new video games. If he charges forty-seven dollars to mow a lawn, how many lawns will he need to mow to earn the money?
- 2) A company had forty-one employees and ordered nine hundred eighty uniforms for them. If they wanted to give each employee the same number of uniforms, how many more uniforms should they order so they don't have any extra?
- 3) Victor had eight hundred sixty-one marbles he's putting into bags with twenty-five in each bag. How many marbles will he have in the bag that isn't full?
- 4) A box of light fixtures cost \$forty-three. If you had six hundred dollars and bought as many boxes as you could, how much money would you have left?
- 5) A baker had eighteen boxes for donuts. He ended up making seven hundred sixty-three donuts and splitting them evenly between the boxes. How many extra donuts did he end up with?
- 6) Cody wanted to give each of his forty-five friends an equal amount of candy. At the store he bought six hundred eighty pieces total to give to them. He many more pieces should he have bought so he didn't have any extra pieces?
- 7) An art museum had eight hundred forty-three pictures to split equally into seventeen different exhibits. How many more pictures would they need to make sure each exhibit had the same amount?
- 8) A movie theater needed five hundred twenty-eight popcorn buckets. If each package has forty-six buckets in it, how many packages will they need to buy?
- 9) A recycling company had six hundred sixty-six pounds of material to sort. To make it easier they split them into boxes with each full box having twenty-two pounds, how many full boxes did they have?
- 10) A machine in a candy company creates seven hundred eighty-three pieces of candy a minute. If a small box of candy has thirteen pieces in it how many full boxes does the machine make in a minute?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



Use the tables to answer each question.

- 1) The table below shows the capacity of several water coolers.

Cooler	Capacity (in gallons)
Cooler 1	$1 \frac{2}{3}$
Cooler 2	$2 \frac{4}{8}$
Cooler 3	$2 \frac{1}{8}$
Cooler 4	$4 \frac{1}{6}$

What is the combined capacity of all the coolers?

- 3) The table below shows the weight of several phones.

Phone	Weight (in ounces)
Phone 1	$2 \frac{3}{5}$
Phone 2	$6 \frac{1}{4}$
Phone 3	$9 \frac{3}{6}$
Phone 4	$3 \frac{2}{5}$

What is the combined weight of all the phones?

- 5) The table below shows the length of several pieces of string.

String	Length (in Inches)
String 1	$3 \frac{6}{8}$
String 2	$7 \frac{1}{5}$
String 3	$9 \frac{2}{8}$
String 4	$4 \frac{3}{5}$

What is the combined length of all the strings?

- 2) The table below shows the weight of several vehicles.

Car	Weight (in tons)
Car 1	$9 \frac{1}{3}$
Car 2	$4 \frac{5}{8}$
Car 3	$9 \frac{1}{3}$
Car 4	$3 \frac{1}{3}$

What is the combined weight of all the cars?

- 4) The table below shows the weight of several books.

Book	Weight (in ounces)
Book 1	$3 \frac{6}{8}$
Book 2	$7 \frac{1}{5}$
Book 3	$3 \frac{1}{2}$
Book 4	$1 \frac{1}{4}$

What is the combined weight of all the books?

- 6) The table below shows how many milliliters of ink were in pens.

Pen	Capacity (in milliliters)
Pen 1	$7 \frac{1}{3}$
Pen 2	$4 \frac{2}{4}$
Pen 3	$1 \frac{4}{6}$
Pen 4	$7 \frac{1}{3}$

What is the combined capacity of all the pens?

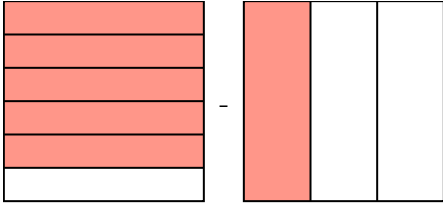
**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

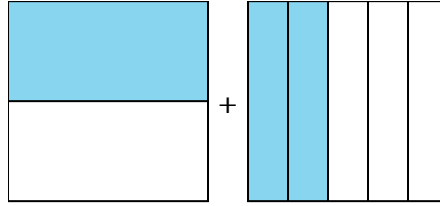


Solve each problem.

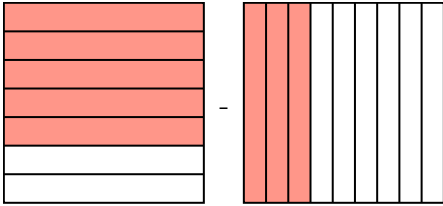
1)  $\frac{5}{6} - \frac{1}{3} =$



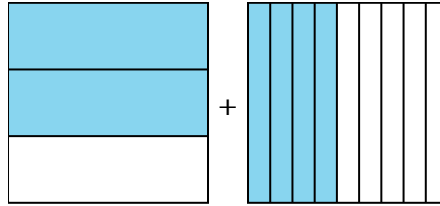
2)  $\frac{1}{2} + \frac{2}{5} =$



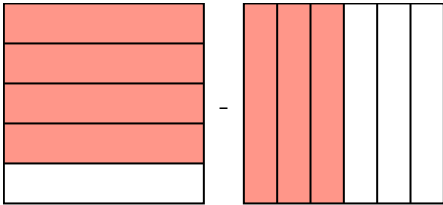
3)  $\frac{5}{7} - \frac{3}{9} =$



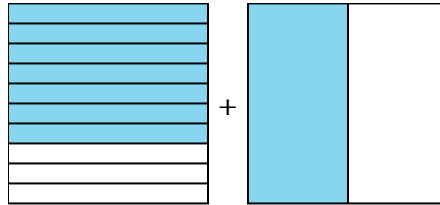
4)  $\frac{2}{3} + \frac{4}{9} =$



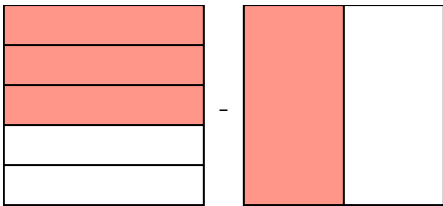
5)  $\frac{4}{5} - \frac{3}{6} =$



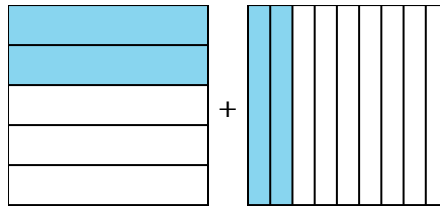
6)  $\frac{7}{10} + \frac{1}{2} =$



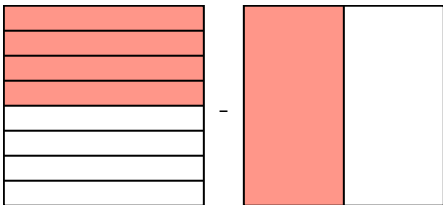
7)  $\frac{3}{5} - \frac{1}{2} =$



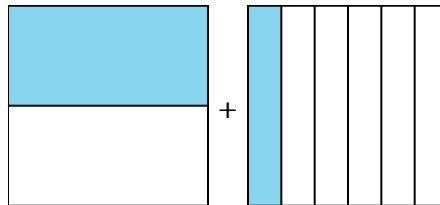
8)  $\frac{2}{5} + \frac{2}{9} =$



9)  $\frac{4}{8} - \frac{1}{2} =$



10)  $\frac{1}{2} + \frac{1}{6} =$



Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



Solve each fraction as though it were a division problem. Write your answer as a fraction.

Ex)  $\frac{14}{3} = 4\frac{2}{3}$

1)  $\frac{88}{9} =$

2)  $\frac{53}{5} =$

3)  $\frac{92}{9} =$

4)  $\frac{46}{7} =$

5)  $\frac{35}{6} =$

6)  $\frac{13}{2} =$

7)  $\frac{78}{8} =$

8)  $\frac{37}{8} =$

9)  $\frac{57}{9} =$

10)  $\frac{9}{2} =$

11)  $\frac{21}{2} =$

12)  $\frac{29}{6} =$

13)  $\frac{7}{2} =$

14)  $\frac{34}{5} =$

15)  $\frac{33}{7} =$

16)  $\frac{69}{8} =$

17)  $\frac{27}{6} =$

18)  $\frac{65}{8} =$

19)  $\frac{35}{4} =$

20)  $\frac{58}{7} =$

**Answers**

Ex.  $4\frac{2}{3}$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Solve each problem.

- 1) Adam bought a box of fruit that weighed  $6\frac{3}{8}$  kilograms. If he bought a second box that weighed  $7\frac{2}{5}$  kilograms, what is the combined weight of both boxes?
- 2) Haley's class recycled  $5\frac{5}{6}$  boxes of paper in a month. If they recycled another  $5\frac{4}{5}$  boxes the next month what is the total amount they recycled?
- 3) On Monday Bianca spent  $4\frac{8}{9}$  hours studying. On Tuesday she spent another  $3\frac{5}{6}$  hours studying. What is the combined length of time she spent studying?
- 4) Emily walked  $5\frac{2}{6}$  miles in the morning and another  $3\frac{3}{5}$  miles in the afternoon. What was the total distance she walked?
- 5) A recipe called for using  $5\frac{1}{8}$  cups of flour before baking and another  $8\frac{7}{9}$  cups after baking. What is the total amount of flour needed in the recipe?
- 6) George bought a box of fruit that weighed  $3\frac{1}{2}$  kilograms. If he gave away  $2\frac{5}{7}$  kilograms of fruit to his friends, how many kilograms does he have left?
- 7) A full garbage truck weighed  $9\frac{3}{4}$  tons. After dumping the garbage, the truck weighed  $3\frac{5}{9}$  tons. What was the weight of the garbage?
- 8) While exercising Cody travelled  $4\frac{2}{7}$  kilometers. If he walked  $2\frac{3}{9}$  kilometers and jogged the rest, how many kilometers did he jog?
- 9) Victor jogged  $8\frac{3}{7}$  kilometers on Monday and  $7\frac{4}{6}$  kilometers on Tuesday. What is the difference between these two distances?
- 10) Zoe bought a bamboo plant that was  $4\frac{1}{2}$  feet high. When she got it home she cut  $3\frac{1}{6}$  feet off of it. How tall was the plant after she cut it down?

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



Use the visual model to solve each problem.

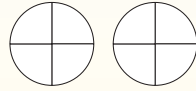
$$\frac{2}{4} \times 3 =$$

To solve multiplication problems with fractions one strategy is to think of them as addition problems. For example the problem above is the same as:

$$\frac{2}{4} + \frac{2}{4} + \frac{2}{4}$$

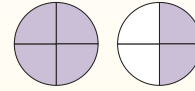
$$\frac{2}{4} \times 3 =$$

If we shade in  $\frac{2}{4}$  on the fractions below 3 times we can see a visual representation of the problem.



$$\frac{2}{4} \times 3 = 1 \frac{2}{4}$$

After shading it in we can see why  $\frac{2}{4}$  three times is equal to 1 whole and  $\frac{2}{4}$ .



## Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

1)  $\frac{4}{8} \times 4 =$

2)  $\frac{5}{6} \times 6 =$

3)  $\frac{3}{4} \times 6 =$

4)  $\frac{3}{6} \times 6 =$

5)  $\frac{4}{12} \times 4 =$

6)  $\frac{2}{3} \times 4 =$

7)  $\frac{7}{12} \times 4 =$

8)  $\frac{3}{8} \times 6 =$

9)  $\frac{1}{4} \times 4 =$

10)  $\frac{8}{10} \times 4 =$

11)  $\frac{6}{8} \times 3 =$

12)  $\frac{2}{3} \times 2 =$





Solve each problem.

1)  $\frac{1}{2} \times \frac{1}{2} =$

2)  $\frac{1}{4} \times \frac{3}{5} =$

3)  $\frac{1}{2} \times \frac{4}{5} =$

4)  $\frac{2}{3} \times \frac{1}{2} =$

5)  $\frac{2}{5} \times \frac{1}{3} =$

6)  $\frac{1}{2} \times \frac{4}{5} =$

7)  $\frac{2}{3} \times \frac{1}{2} =$

8)  $\frac{1}{2} \times \frac{1}{5} =$

9)  $\frac{3}{5} \times \frac{3}{4} =$

10)  $\frac{1}{3} \times \frac{2}{4} =$

11)  $\frac{1}{2} \times \frac{1}{5} =$

12)  $\frac{2}{4} \times \frac{1}{4} =$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

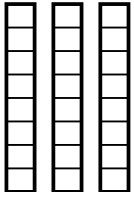
11. \_\_\_\_\_

12. \_\_\_\_\_

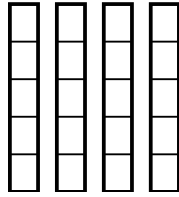


Use the visual models to solve.

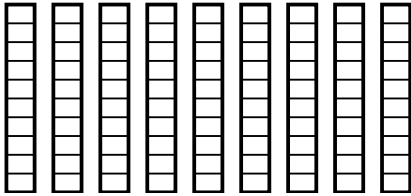
1)  $\frac{5}{8} \times 3 =$



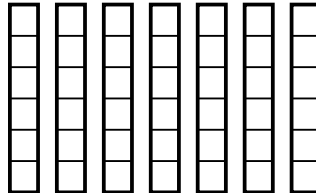
2)  $\frac{1}{5} \times 4 =$



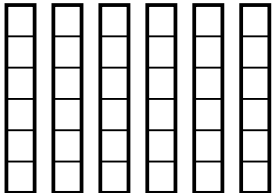
3)  $\frac{8}{10} \times 9 =$



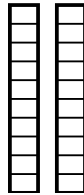
4)  $\frac{3}{6} \times 7 =$



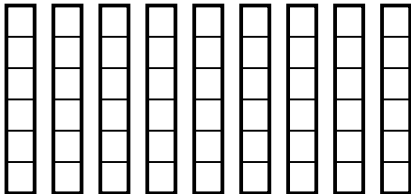
5)  $\frac{5}{6} \times 6 =$



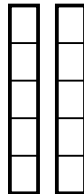
6)  $\frac{8}{10} \times 2 =$



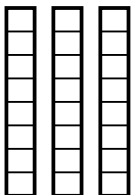
7)  $\frac{1}{6} \times 9 =$



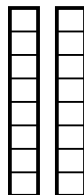
8)  $\frac{1}{5} \times 2 =$



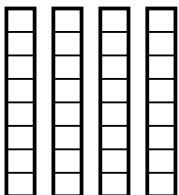
9)  $\frac{1}{8} \times 3 =$



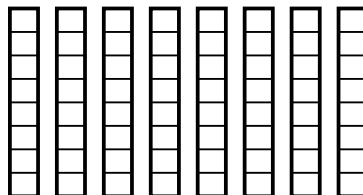
10)  $\frac{4}{8} \times 2 =$



11)  $\frac{2}{8} \times 4 =$



12)  $\frac{6}{8} \times 8 =$



Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

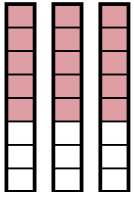
11. \_\_\_\_\_

12. \_\_\_\_\_

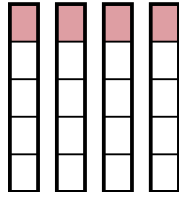


Use the visual models to solve.

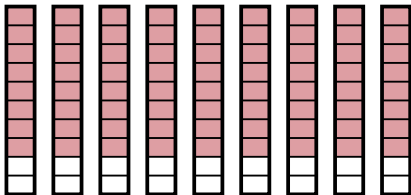
1)  $\frac{5}{8} \times 3 =$



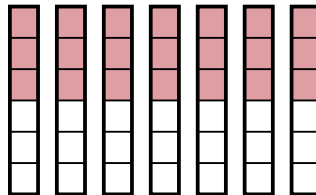
2)  $\frac{1}{5} \times 4 =$



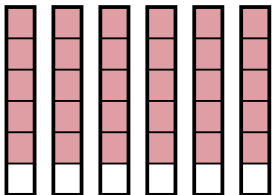
3)  $\frac{8}{10} \times 9 =$



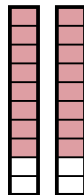
4)  $\frac{3}{6} \times 7 =$



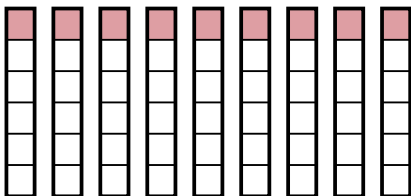
5)  $\frac{5}{6} \times 6 =$



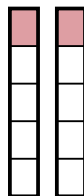
6)  $\frac{8}{10} \times 2 =$



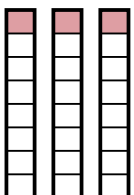
7)  $\frac{1}{6} \times 9 =$



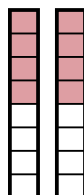
8)  $\frac{1}{5} \times 2 =$



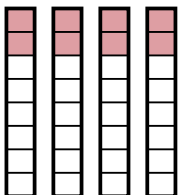
9)  $\frac{1}{8} \times 3 =$



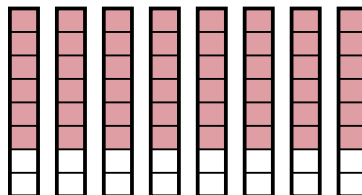
10)  $\frac{4}{8} \times 2 =$



11)  $\frac{2}{8} \times 4 =$



12)  $\frac{6}{8} \times 8 =$



Answers

1.  $\frac{15}{8}$

2.  $\frac{4}{5}$

3.  $\frac{72}{10}$

4.  $\frac{21}{6}$

5.  $\frac{30}{6}$

6.  $\frac{16}{10}$

7.  $\frac{9}{6}$

8.  $\frac{2}{5}$

9.  $\frac{3}{8}$

10.  $\frac{8}{8}$

11.  $\frac{8}{8}$

12.  $\frac{48}{8}$



Use 'More' or 'Less' to answer each question.

Answers

1)  $\frac{1}{2} \times 8\frac{1}{8} = ?$

Will the product be more or less than  $8\frac{1}{8}$  ?

1. \_\_\_\_\_

2)  $\frac{5}{6} \times \frac{22}{3} = ?$

Will the product be more or less than  $\frac{5}{6}$  ?

2. \_\_\_\_\_

3)  $5\frac{1}{3} \times \frac{6}{7} = ?$

Will the product be more or less than  $5\frac{1}{3}$  ?

3. \_\_\_\_\_

4)  $6\frac{7}{9} \times \frac{21}{5} = ?$

Will the product be more or less than  $\frac{21}{5}$  ?

4. \_\_\_\_\_

5)  $8\frac{2}{4} \times 5\frac{4}{6} = ?$

Will the product be more or less than  $8\frac{2}{4}$  ?

5. \_\_\_\_\_

6)  $8 \times \frac{2}{4} = ?$

Will the product be more or less than  $\frac{2}{4}$  ?

6. \_\_\_\_\_

7)  $4\frac{2}{8} \times \frac{22}{9} = ?$

Will the product be more or less than  $4\frac{2}{8}$  ?

7. \_\_\_\_\_

8)  $3\frac{1}{5} \times 3\frac{1}{8} = ?$

Will the product be more or less than  $3\frac{1}{8}$  ?

8. \_\_\_\_\_

9)  $2\frac{7}{8} \times \frac{1}{9} = ?$

Will the product be more or less than  $\frac{1}{9}$  ?

9. \_\_\_\_\_

10)  $9\frac{8}{9} \times \frac{1}{2} = ?$

Will the product be more or less than  $9\frac{8}{9}$  ?

10. \_\_\_\_\_

11)  $\frac{2}{6} \times 9 = ?$

Will the product be more or less than  $\frac{2}{6}$  ?

11. \_\_\_\_\_

12)  $\frac{3}{9} \times 1 = ?$

Will the product be more or less than 1 ?

12. \_\_\_\_\_

13)  $\frac{2}{3} \times \frac{1}{2} = ?$

Will the product be more or less than  $\frac{1}{2}$  ?

13. \_\_\_\_\_



Solve each problem. Write your answer as a mixed number (if possible).

**Answers**

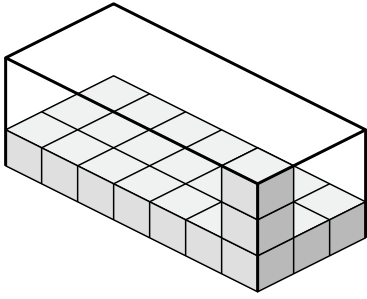
- 1) Robin needed  $3\frac{2}{3}$  feet of thread to finish a pillow she was making. If she has 2 times as much thread as she needs, what is the length of the thread she has?
- 2) A single box of thumb tacks weighed  $3\frac{1}{2}$  ounces. If a teacher had  $4\frac{1}{7}$  boxes, how much would their combined weight be?
- 3) Chloe collected 4 times as many bags of cans as her friend. If her friend collected  $\frac{1}{6}$  of a bag, how much did Chloe collect?
- 4) At the malt shop a large chocolate shake takes  $\frac{8}{9}$  of a pint of milk. If the medium shake takes  $\frac{1}{7}$  the amount of a large, how much does the medium shake take?
- 5) A bottle of soda had  $4\frac{2}{7}$  of the daily recommended sugar. If you were to drink  $\frac{1}{2}$  of the bottle, how much of the daily recommend sugar would you have drank?
- 6) A soda shop owner told his employee to add 2 full cups and  $\frac{1}{5}$  of a cup of syrup to each gallon of soda. If there were 4 gallons of soda, how much syrup would be needed?
- 7) Adam had a lump of silly putty that was  $4\frac{5}{6}$  inches long. If he stretched it out to  $2\frac{2}{3}$  times its current length how long would it be?
- 8) A musician's hair was originally 3 inches long. She asked her hair dresser to cut  $\frac{5}{6}$  of it off. How many inches did she have cut off?
- 9) After a party there was  $\frac{1}{2}$  of a pizza leftover. If the George gave  $\frac{1}{2}$  of the leftover to Olivia, what fraction of the pizza did he give to her?
- 10) A geologist had two rocks on a scale that weighed  $2\frac{1}{2}$  lbs together. Rock A was  $\frac{1}{7}$  of the total weight. How much did rock A weigh?
- 11) A air freshener used  $3\frac{3}{4}$  milliliters of perfume. If Wendy wanted to make 3 air freshners, how many milliliters of perfume would she use?
- 12) A batch of chicken required  $3\frac{1}{3}$  cups of flour. If a fast food restaurant was making  $4\frac{3}{7}$  batches, how much flour would they need?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

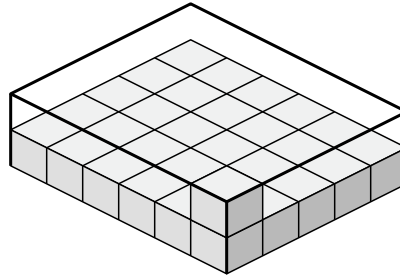


Determine the volume of each box. Each block is 1 cubic unit ( $u^3$ ).

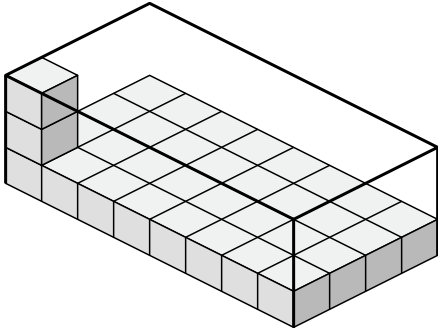
1)



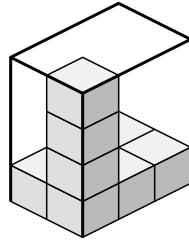
2)



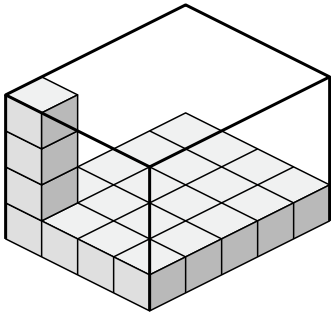
3)



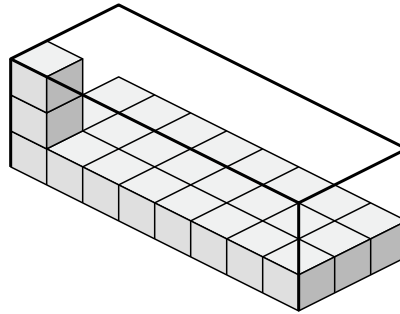
4)



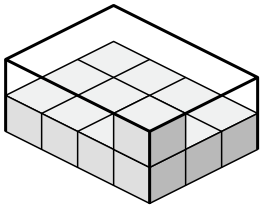
5)



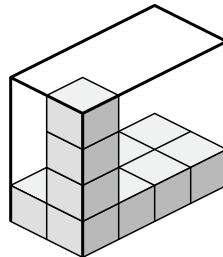
6)



7)



8)



Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

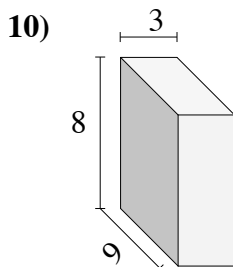
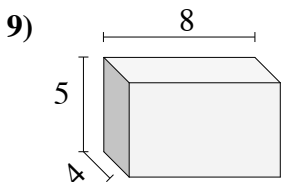
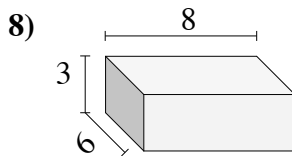
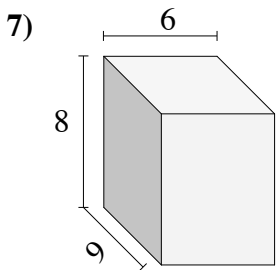
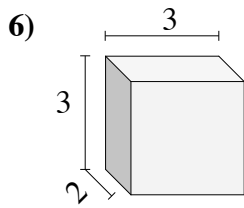
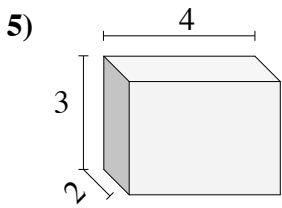
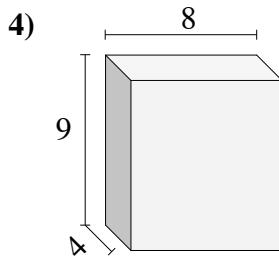
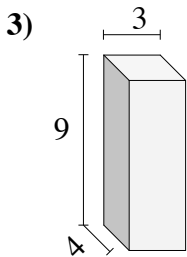
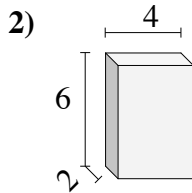
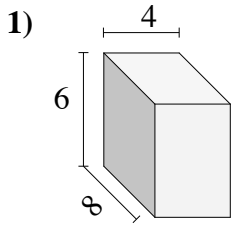
6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_



Find the volume of each of the rectangular prisms. Measured in cm (not to scale).



Answers

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_



Fill in the blank to make each conversion true.

One trick to remember the American Capacity conversions is to remember the numbers:  
 8 2 2 4

These correspond to the measurement units needed for the next higher measurement unit (see the example to the right).

8 Ounces = 1 Cup  
 2 Cups = 1 Pint  
 2 Pints = 1 Quart  
 4 Quarts = 1 Gallon

Answers

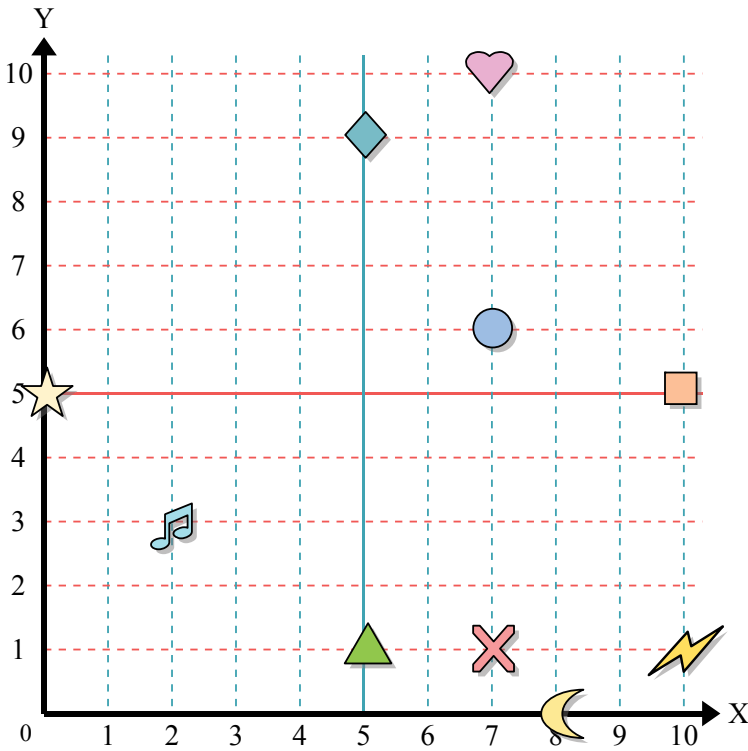
- 1) \_\_\_\_\_ ounces = 2 cups
- 2) \_\_\_\_\_ ounces = 7 cups
- 3) \_\_\_\_\_ cups = 40 ounces
- 4) \_\_\_\_\_ cups = 32 ounces
- 5) \_\_\_\_\_ cups = 80 ounces
- 6) \_\_\_\_\_ cups = 3 pints
- 7) \_\_\_\_\_ cups = 2 pints
- 8) \_\_\_\_\_ cups = 5 pints
- 9) \_\_\_\_\_ pints = 14 cups
- 10) \_\_\_\_\_ pints = 20 cups
- 11) \_\_\_\_\_ pints = 6 quarts
- 12) \_\_\_\_\_ pints = 7 quarts
- 13) \_\_\_\_\_ quarts = 20 pints
- 14) \_\_\_\_\_ quarts = 16 pints
- 15) \_\_\_\_\_ quarts = 10 pints
- 16) \_\_\_\_\_ quarts = 8 gallons
- 17) \_\_\_\_\_ quarts = 9 gallons
- 18) \_\_\_\_\_ gallons = 8 quarts
- 19) \_\_\_\_\_ gallons = 40 quarts
- 20) \_\_\_\_\_ gallons = 28 quarts

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_





Use the grid below to determine the coordinates where each figure is located.



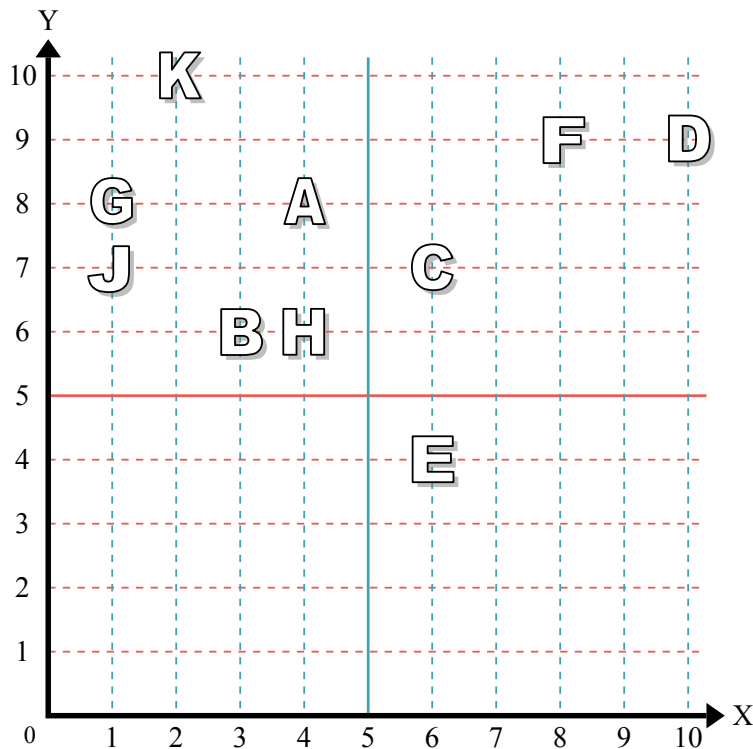
- 1) Star \_\_\_\_\_
- 2) Lightning \_\_\_\_\_
- 3) Circle \_\_\_\_\_
- 4) Heart \_\_\_\_\_
- 5) Cross \_\_\_\_\_
- 6) Triangle \_\_\_\_\_
- 7) Moon \_\_\_\_\_
- 8) Square \_\_\_\_\_
- 9) Diamond \_\_\_\_\_
- 10) Music Note \_\_\_\_\_

Answers

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_
- 16. \_\_\_\_\_
- 17. \_\_\_\_\_
- 18. \_\_\_\_\_
- 19. \_\_\_\_\_
- 20. \_\_\_\_\_

Determine which letter is at each coordinate using the grid below.

- 11) (4, 8) \_\_\_\_\_
- 12) (6, 7) \_\_\_\_\_
- 13) (2, 10) \_\_\_\_\_
- 14) (1, 7) \_\_\_\_\_
- 15) (8, 9) \_\_\_\_\_
- 16) (4, 6) \_\_\_\_\_
- 17) (3, 6) \_\_\_\_\_
- 18) (1, 8) \_\_\_\_\_
- 19) (10, 9) \_\_\_\_\_
- 20) (6, 4) \_\_\_\_\_

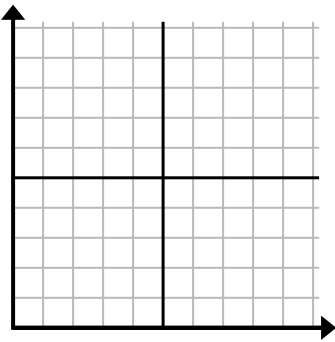


- 20. \_\_\_\_\_

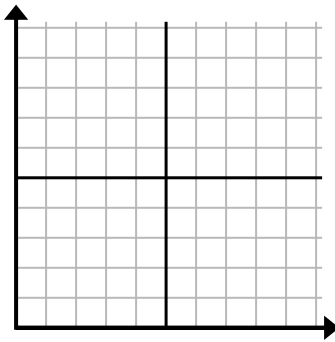


Draw a circle at the coordinates listed.

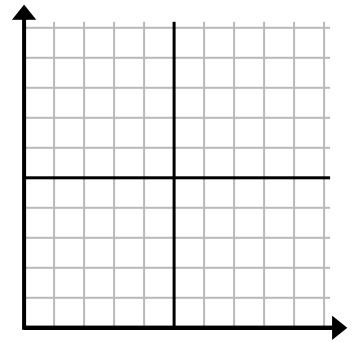
1) (5, 0)



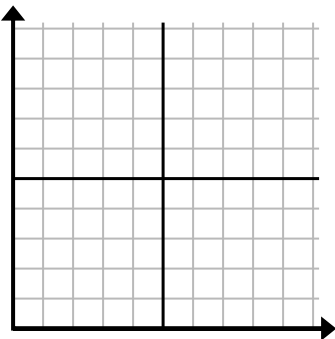
2) (0, 3)



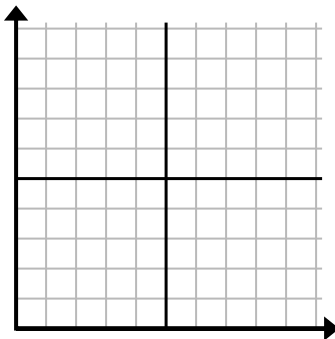
3) (8, 4)



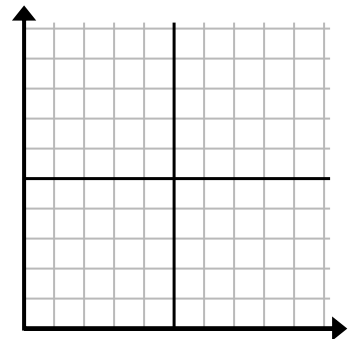
4) (2, 6)



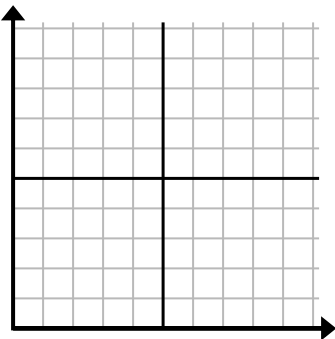
5) (7, 6)



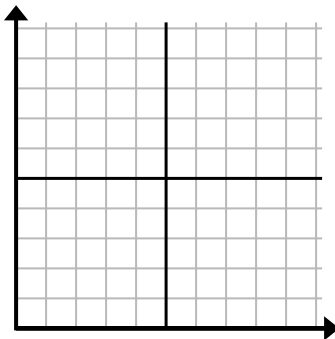
6) (1, 3)



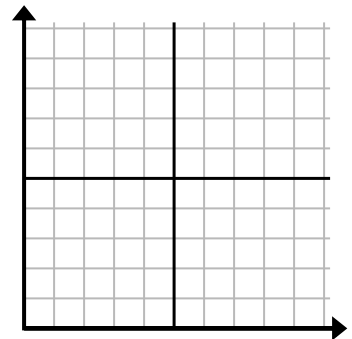
7) (9, 6)



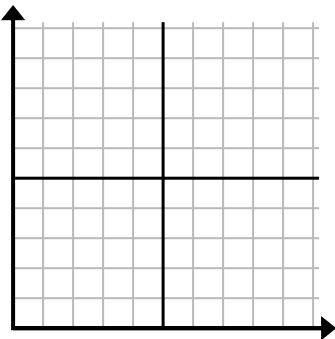
8) (4, 1)



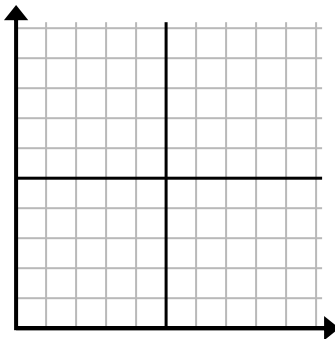
9) (8, 9)



10) (3, 4)



11) (8, 5)



12) (7, 7)

