

June 21, 2018

Dear Sixth Grader,

Attached, you will find a math packet to be completed over the summer. You should bring this with you on the first day of school, as it will be graded by your new math teacher. I have also included the names of some websites which you might want to take a look at for additional review. Remember, the best way to become an even better math student is to practice! You also have access to I-Ready through July.

Happy Summer! See you in three months. (That's one fourth of a year...71 days to be precise...1,704 hours...102,240 minutes...Enjoy your 6,134,400 seconds of vacation! I told you there was no cure for that Math Curse!)

Mrs. Porpora

*PLEASE NOTE: In order to receive full credit for this assignment, ALL WORK must be shown on looseleaf and attached to your packet!

Check these out:

Amathdictionaryforkids.com

mathstory.com

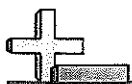
Khanacademy.org

Softschools.com

ixl.com

gamequarium.com

multiplication.com



Solve each problem.

$$\begin{array}{r} 1) \quad 74 \\ - 1.23 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 65.35 \\ + 13.553 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 90 \\ - 33.3 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 21 \\ + 9.7 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 56.4 \\ - 54.562 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 5 \\ + 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 43 \\ - 21.1 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 11 \\ + 1.4 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 3 \\ - 2.763 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 83.8 \\ + 60.68 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 45.8 \\ - 7.08 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 58 \\ + 6.064 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 97 \\ - 33.3 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 76.4 \\ + 63.51 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 38.21 \\ - 11.549 \\ \hline \end{array}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

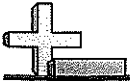
11. _____

12. _____

13. _____

14. _____

15. _____



Solve each problem.

Answers

1) $67 - 45.2 =$ _____

1. _____

2) $86 + 30.1 =$ _____

2. _____

3) $93.72 - 31.060 =$ _____

3. _____

4) $54 + 33.923 =$ _____

4. _____

5) $97 - 62.2 =$ _____

5. _____

6) $17.86 + 13.670 =$ _____

6. _____

7) $8 - 7.24 =$ _____

7. _____

8) $82.5 + 70.01 =$ _____

8. _____

9) $52 - 12.3 =$ _____

9. _____

10) $88 + 19.525 =$ _____

10. _____

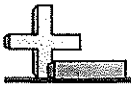
11) $73 - 61.9 =$ _____

11. _____

12) $62 + 27.39 =$ _____

12. _____

A: Because it had more cents.



Multiplication (Vertical)

Name: _____

Solve each problem.

$$\begin{array}{r} 1) \quad 4,132 \\ \times \quad 66 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 2,400 \\ \times \quad 93 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 1,384 \\ \times \quad 24 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 1,331 \\ \times \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 1,080 \\ \times \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 4,815 \\ \times \quad 81 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 1,812 \\ \times \quad 97 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 9,195 \\ \times \quad 24 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 6,676 \\ \times \quad 72 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 6,315 \\ \times \quad 63 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 5,264 \\ \times \quad 46 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 1,520 \\ \times \quad 84 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 9,671 \\ \times \quad 62 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 4,652 \\ \times \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 9,490 \\ \times \quad 28 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 3,056 \\ \times \quad 15 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 7,814 \\ \times \quad 75 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 6,575 \\ \times \quad 99 \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 3,239 \\ \times \quad 20 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 2,552 \\ \times \quad 63 \\ \hline \end{array}$$

Answers

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

Q: *What happened to the plant in math class?*



Solve each problem.

1)

$$31 \overline{) 9,269}$$

2)

$$22 \overline{) 7,700}$$

3)

$$51 \overline{) 1,989}$$

4)

$$30 \overline{) 240}$$

5)

$$58 \overline{) 7,888}$$

6)

$$26 \overline{) 5,101}$$

7)

$$48 \overline{) 6,586}$$

8)

$$43 \overline{) 258}$$

9)

$$87 \overline{) 1,118}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



Determine the placement of the decimal in each product.

$$5.809 \times 7.8 = \quad 4 \quad 5 \quad 3 \quad 1 \quad 0 \quad 2$$

1. Count the quantity of numbers to the right of the decimal for each factor.

5.809 has 3 numbers right of the decimal (5.809)

7.8 has 1 number right of the decimal (7.8)

2. Add the amounts together. Your answer should have the same quantity of numbers to the right of the decimal.

$$3 + 1 = 4$$

$$5.809 (3) \times 7.8 (1) = 45.3102 (4)$$

Also notice that $5 \times 7 = 35$ and $6 \times 8 = 48$, so 5.809×7.8 will be a more than 35 but less than 48.

Answers

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

- 1) $4.321 \times 5.76 =$ 2 4 8 8 8 9 6
- 2) $9 \times 2.943 =$ 2 6 4 8 7
- 3) $2.371 \times 6.7 =$ 1 5 8 8 5 7
- 4) $3 \times 7.258 =$ 2 1 7 7 4
- 5) $1 \times 6.17 =$ 6 1 7
- 6) $5 \times 9.7 =$ 4 8 5
- 7) $3.1 \times 9.459 =$ 2 9 3 2 2 9
- 8) $5 \times 5.2 =$ 2 6 0
- 9) $2.5 \times 1.21 =$ 3 0 2 5
- 10) $3.685 \times 7.55 =$ 2 7 8 2 1 7 5
- 11) $2.882 \times 7.6 =$ 2 1 9 0 3 2
- 12) $6.898 \times 6.94 =$ 4 7 8 7 2 1 2
- 13) $5.995 \times 8.7 =$ 5 2 1 5 6 5
- 14) $8.55 \times 5.626 =$ 4 8 1 0 2 3 0
- 15) $6 \times 7.71 =$ 4 6 2 6
- 16) $9.332 \times 1.5 =$ 1 3 9 9 8 0
- 17) $1.95 \times 6.692 =$ 1 3 0 4 9 4 0
- 18) $7.635 \times 2.5 =$ 1 9 0 8 7 5
- 19) $9.22 \times 7.5 =$ 6 9 1 5 0
- 20) $1.9 \times 1.16 =$ 2 2 0 4



Multiplying with Decimals

Name: _____

Solve each problem.

$$\begin{array}{r} 1) \quad 3.96 \\ \times \quad 4.13 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 75.5 \\ \times \quad 6.19 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 33.3 \\ \times \quad 8.09 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 35.7 \\ \times \quad 8.6 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 30.56 \\ \times \quad 3.7 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 86.7 \\ \times \quad 9.59 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 81.40 \\ \times \quad 6.34 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 7.0 \\ \times \quad 4.8 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 8.40 \\ \times \quad 3.91 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 9.4 \\ \times \quad 6.7 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 70.94 \\ \times \quad 3.2 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 67.2 \\ \times \quad 7.01 \\ \hline \end{array}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

Dividing Decimals by Whole Numbers

Name _____

Date _____

Divide: $56.84 \div 7$

Write the decimal point
of the quotient directly
above the decimal point
of the dividend.

$$7 \overline{)56.84}$$

Divide as you would
with whole numbers.

$$\begin{array}{r} 8.12 \\ 7 \overline{)56.84} \\ \underline{-56} \\ 08 \\ \underline{-7} \\ 14 \\ \underline{-14} \\ 0 \end{array}$$

Check.

$$\begin{array}{r} 8.12 \\ \times 7 \\ \hline 56.84 \end{array}$$

Circle the letter of the correct answer.

1. $6 \overline{)0.78}$

a. 1.3

b. 0.13

c. 13

d. 0.013

2. $84 \overline{)26.88}$

a. 0.32

b. 0.032

c. 3.2

d. 32

Divide and check.

3. $9 \overline{)\$28.35}$

4. $4 \overline{)45.12}$

5. $2 \overline{)0.286}$

6. $5 \overline{)7.20}$

7. $8 \overline{)\$9.76}$

8. $7 \overline{)19.4691}$

9. $3 \overline{)22.008}$

10. $4 \overline{)0.852}$

11. $12 \overline{)4.344}$

12. $23 \overline{)9.89}$

13. $38 \overline{)\$66.88}$

14. $17 \overline{)\$21.76}$

Q: Why should the number 288 never be mentioned?

Dividing by a Decimal

Name _____

Date _____

Divide: $23.04 \div 0.6 = ?$

Move the decimal points in the divisor and in the dividend.

$$0.6 \overline{)23.04} \rightarrow 6 \overline{)230.4}$$

Place the decimal point in the quotient. Divide.

$$0.6 \overline{)230.4} \begin{array}{r} 38.4 \\ \hline \end{array}$$

Check.

$$\begin{array}{r} 38.4 \\ \times 0.6 \\ \hline 23.04 \end{array}$$

Circle the letter of the correct answer.

- | | | | | |
|---------------------------|---------|---------|----------|---------|
| 1. $0.5 \overline{)3.5}$ | a. 0.7 | b. 7 | c. 70 | d. 0.07 |
| 2. $0.2 \overline{)0.16}$ | a. 0.8 | b. 0.08 | c. 8 | d. 80 |
| 3. $0.7 \overline{)49.7}$ | a. 0.71 | b. 7.1 | c. 71 | d. 710 |
| 4. $0.4 \overline{)8.48}$ | a. 212 | b. 2.12 | c. 0.212 | d. 21.2 |
| 5. $0.3 \overline{)2.4}$ | a. 0.8 | b. 0.08 | c. 8 | d. 80 |

Divide

- | | | | | |
|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| 6. $0.9 \overline{)8.1}$ | 7. $0.6 \overline{)5.4}$ | 8. $0.8 \overline{)3.2}$ | 9. $0.2 \overline{)1.4}$ | 10. $0.5 \overline{)4.5}$ |
| 11. $0.3 \overline{)0.21}$ | 12. $0.7 \overline{)0.35}$ | 13. $0.4 \overline{)3.24}$ | 14. $0.6 \overline{)1.26}$ | 15. $0.8 \overline{)6.48}$ |
| 16. $0.2 \overline{)64.4}$ | 17. $0.5 \overline{)85.5}$ | 18. $0.8 \overline{)3.36}$ | 19. $0.9 \overline{)5.166}$ | 20. $0.4 \overline{)8.52}$ |



Multiplying Fractions

Name: _____

Solve each problem.

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

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

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

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

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

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

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

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

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

Q: What do you call a number that can't keep still?

Name : _____

Score : _____

Teacher : _____

Date : _____

Multiplying Fractions with Cross Canceling

1) $\frac{3}{20} \times \frac{1}{3} =$

2) $\frac{2}{3} \times \frac{13}{16} =$

3) $\frac{10}{20} \times \frac{8}{15} =$

4) $\frac{5}{16} \times \frac{11}{12} =$

5) $\frac{2}{14} \times \frac{1}{18} =$

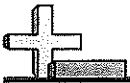
6) $\frac{10}{20} \times \frac{11}{14} =$

7) $\frac{3}{12} \times \frac{16}{18} =$

8) $\frac{10}{14} \times \frac{19}{20} =$

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

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



Dividing Unit Fractions

Name: _____

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

1) $\frac{1}{7} \div 4 =$

2) $\frac{1}{9} \div 9 =$

3) $\frac{1}{9} \div 7 =$

4) $\frac{1}{4} \div 4 =$

5) $\frac{1}{4} \div 6 =$

6) $\frac{1}{3} \div 3 =$

7) $\frac{1}{2} \div 2 =$

8) $\frac{1}{7} \div 8 =$

9) $\frac{1}{9} \div 5 =$

10) $\frac{1}{3} \div 7 =$

11) $\frac{1}{6} \div 4 =$

12) $\frac{1}{2} \div 9 =$

13) $\frac{1}{8} \div 3 =$

14) $\frac{1}{3} \div 3 =$

15) $\frac{1}{4} \div 5 =$

16) $\frac{1}{2} \div 8 =$

17) $\frac{1}{8} \div 9 =$

18) $\frac{1}{4} \div 3 =$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____



Dividing Unit Fractions

Name: _____

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

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

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

3) $4 \div \frac{1}{9} =$

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

5) $6 \div \frac{1}{4} =$

6) $4 \div \frac{1}{6} =$

7) $3 \div \frac{1}{8} =$

8) $8 \div \frac{1}{9} =$

9) $7 \div \frac{1}{5} =$

10) $6 \div \frac{1}{3} =$

11) $8 \div \frac{1}{3} =$

12) $4 \div \frac{1}{8} =$

13) $5 \div \frac{1}{9} =$

14) $8 \div \frac{1}{2} =$

15) $2 \div \frac{1}{5} =$

16) $3 \div \frac{1}{5} =$

17) $6 \div \frac{1}{6} =$

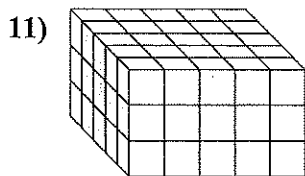
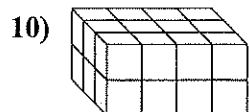
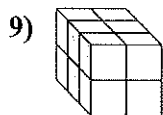
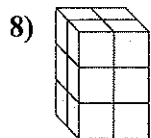
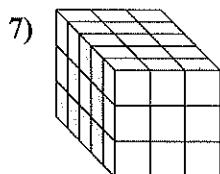
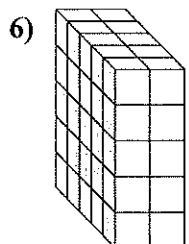
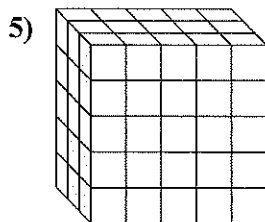
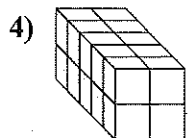
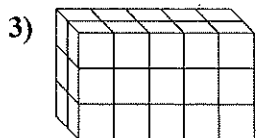
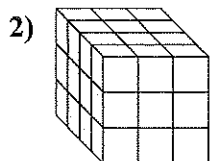
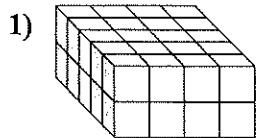
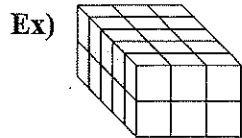
18) $4 \div \frac{1}{5} =$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____



Find the length, width and height of the rectangular prism. Then find the volume.



Answers

L W H V

Ex. 5 3 2 30

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

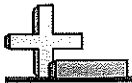
7. _____

8. _____

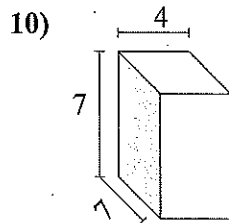
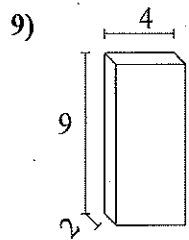
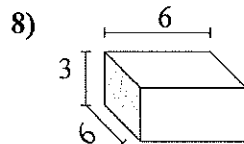
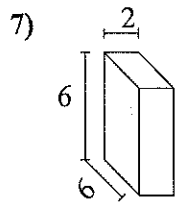
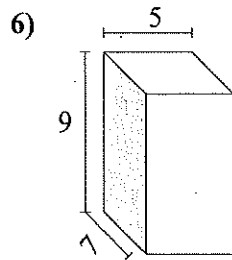
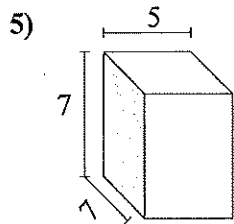
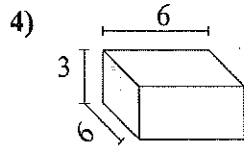
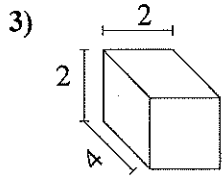
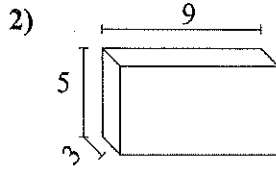
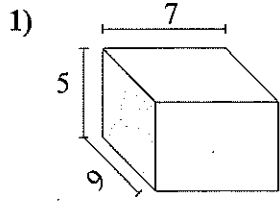
9. _____

10. _____

11. _____



Find the volume of each of the rectangular prisms.



Answers

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

Complete the following problems and show all work in the space provided.

1. 5 ft. = _____ yd	4. 8 in = _____ ft
2. 15 in = _____ ft	5. 7 oz = _____ lb
3. 20 oz = _____ lb	6. 4 pt = _____ qt

Q: *Where do math teachers go on vacation?*

7. $5 \frac{1}{2}$ ft = _____ yd	9. $2 \frac{3}{5}$ hr = _____ min
8. $3 \frac{1}{2}$ qt = _____ gal	10. $8 \frac{1}{2}$ pt = _____ qt

11. Meg buys 4 ounces of walnuts.

a. What fraction of a pound of walnuts did Meg buy?

b. If a whole pound of walnuts costs \$20, how much did Meg pay?

12. Jack and Jill visit Yo-Yo-Yogurt. The scale says that Jack has 12 ounces of yogurt in his cup. Jill's yogurt weighs half as much. How many pounds of frozen yogurt did they buy altogether? Express your answer as a mixed number.

13. Artie the Artist uses 2 quarts of green paint every month. In one year, how many gallons of paint will he use?