

Summer Work: 7th Grade - Math 7/Pre-Algebra
Due: Bring to your first math class.

 What You Need to Do:

1. Complete the Summer Math Packet

- Use a **separate sheet of paper**.
- **Show all work** to receive full credit.
- **Check your answers** at the end of the packet.

2. Complete 3 Delta Math Assignments

- Number Sense
- Fractions, Decimals, and Percents
- Rates and Ratios

3. Continue to practice multiplication/division facts.

Knowing these will help you *tremendously* in 7th-grade math!

 **This assignment will count as a graded completion assignment on your first quarter progress report.**

Delta Math Login Instructions

1. Go to deltamath.com/students
2. Click the orange "Register" button
3. Enter the class code: 42W8-9N3D
 - a. This will allow you to join the *Rising 7th Grade Summer Math* class on Delta Math
4. Log in with your Garrison Forest Gmail account

7th Grade - Math 7/Pre-Algebra

1. Please do your work on a separate sheet of paper. **SHOW YOUR WORK.**
 2. The answers are at the end of the document, so check as you go.
 3. Bring completed work with you to your first math class.
 4. Do your best.
 5. A completion grade will be a part of your first-quarter grade.
-

Find the least common multiple (LCM):

1a. 12 and 2

1b. 12 and 9

1c. 12 and 16

Find the greatest common factor (GCF):

2a. 30 and 18

2b. 63 and 42

2c. 16, 27 and 20

What is the prime factorization of:

3a. 30

3b. 105

3c. 294

Find the sum or difference:

4a. $1\frac{1}{2} + 4\frac{5}{8}$

4b. $7\frac{2}{9} - 3\frac{5}{6}$

4c. $4\frac{3}{5} + 7\frac{1}{2}$

4d. $17\frac{4}{9} - 12\frac{2}{3}$

Find the product:

5a. $9 \times 1\frac{1}{12}$

5b. $\frac{3}{11} \times 3\frac{1}{4}$

5c. $2\frac{1}{3} \times 1\frac{1}{2}$

Find the quotient:

6a. $\frac{8}{5} \div \frac{7}{8}$

6b. $2\frac{5}{8} \div 3$

6c. $4\frac{1}{3} \div 5\frac{1}{2}$

Find an equivalent fraction. What number could replace n?

7a. $\frac{1}{3} = \frac{2}{n}$

7b. $\frac{2}{10} = \frac{n}{100}$

7c. $\frac{n}{8} = \frac{15}{40}$

Order from least to greatest:

8a. $\frac{9}{10}$ $\frac{4}{5}$ $\frac{1}{2}$

8b. $\frac{1}{2}$ $\frac{5}{4}$ $\frac{7}{8}$

8c. $\frac{2}{3}$ $\frac{3}{8}$ $\frac{3}{4}$

Round to the nearest hundredth:

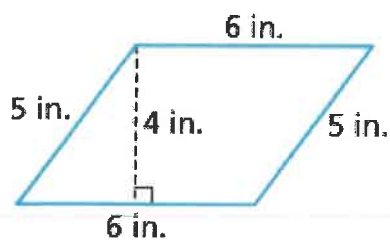
9a. 0.5235

9b. 398.4758

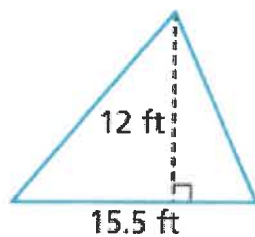
9c. 82.7971

Find the area of each figure shown.

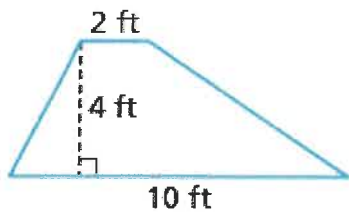
10a.



10b.



10c.



Write each percent as a decimal.

11a. 75%

11b. 3%

11c. 120%

11d. 32%

Write each percent as a fraction in simplest form.

12a. 8%

12b. 40%

12c. 55%

12d. 96%

Write each fraction as a percent.

13a. $\frac{1}{4}$

13b. $\frac{3}{5}$

13c. $\frac{12}{25}$

Fill in each blank to make an equivalent ratio.

14a. $3:2 = 12: \underline{\hspace{1cm}}$

14b. $5: \underline{\hspace{1cm}} = 1:4$

14c. $18:6 = \underline{\hspace{1cm}}:2$

Find the unit rate for each.

15a. 350 miles in 5 hours

15b. 6 donuts for \$7.50

15c. George leaves the zoo at 10:30 am. He drives at a constant speed of 48 miles per hour. How far has he traveled at 1 pm?

Find the sum:

16a. $1.12 + 29.9$

16b. $0.678 + 3.4$

16c. $182.57 + 34$

Find the difference:

17a. $98.4 - 4.2$

17b. $127.3 - 2.45$

17c. $58 - 3.298$

Find the product:

18a. 7×2.3

18b. 41.2×7.8

18c. 35.68×9.32

Find the quotient (round your answer to the nearest hundredth):

19a. $5.82 \div 3$

19b. $98.56 \div 1.2$

19c. $9 \div 2.1$

Solve for x:

20a. $x + 12 = 21$

20b. $x - 23 = 14$

20c. $18 = x - 7.5$

20d. $3.8 + x = 5$

20e. $7x = 56$

20f. $60 = 12x$

20g. $\frac{x}{5} = 4.2$

20h. $\frac{x}{9} = \frac{3}{4}$

ANSWERS - Remember that you should be showing your work when possible.

- 1a. 12
b. 36
c. 48

- 2a. 6
b. 21
c. 1

- 3a. $2 \times 3 \times 5$
b. $3 \times 5 \times 7$
c. $2 \times 3 \times 7 \times 7$

- 4a. $6\frac{1}{8}$
b. $3\frac{7}{18}$
c. $12\frac{1}{10}$
d. $4\frac{7}{9}$

- 5a. $\frac{117}{12} = 9\frac{3}{4}$
b. $\frac{39}{44}$
c. $\frac{7}{2} = 3\frac{1}{2}$

- 6a. $\frac{64}{35} = 1\frac{29}{35}$
b. $\frac{7}{8}$
c. $\frac{26}{33}$

- 7a. $n = 6$
b. $n = 20$
c. $n = 3$

- 8a. $\frac{1}{2}, \frac{4}{5}, \frac{9}{10}$
b. $\frac{1}{2}, \frac{7}{8}, \frac{5}{4}$
c. $\frac{3}{8}, \frac{2}{3}, \frac{3}{4}$

- 9a. 0.52
b. 398.48
c. 82.80

- 10a. 24 sq. in
b. 93 sq. ft
c. 24 sq. ft

- 11a. 0.75
b. .03
c. 1.2
d. .32

- 12a. $\frac{2}{25}$
b. $\frac{2}{5}$
c. $\frac{11}{20}$
d. $\frac{24}{25}$

- 13a. 25%
b. 60%
c. 48%

- 14a. 8
b. 20
c. 6

- 15a. 70 mph
b. \$1.25 per donut
c. 120 miles

- 16a. 31.02
b. 4.078
c. 216.57

- 17a. 94.2
b. 124.85
c. 54.702

- 18a. 16.1
b. 321.36
c. 332.5376

- 19a. 1.94
b. 82.13
c. 4.29

- 20a. $x = 9$
b. $x = 37$
c. $x = 25.5$
d. $x = 1.2$
e. $x = 8$
f. $x = 5$
g. $x = 21$
h. $x = 6\frac{3}{4}$