

Name \_\_\_\_\_

Rising 6<sup>th</sup> Grade

Summer Math Packet – June Problems

Please show your work below.

ANSWERS

1. Simplify:  $62 \times 25 =$

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

2. Simplify:  $23.8 \times 0.7 =$

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

3. Write the place value for the underlined digit.

a. 19,250

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

b. 2,154,090.056

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

c. 32.5089

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

d. 2,007845

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

4. Find the greatest common factor of 24 and 80

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

5. Simplify:  $\frac{2}{5} + \frac{4}{15} =$

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

6. Round the numbers below to the hundredths place.

a. 2.3647

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

b. 120.03924

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

c. 0.9931

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

d. 63.07523

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

7. Find the area of a rectangle that has a length of 4cm and a width of 9.2cm.

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

8. Use the order of operations to simplify:  $13 + 2 \times 4$

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

9. Find the common denominator to write these in order from least to greatest:

$$\frac{3}{4}, \frac{7}{12}, \frac{5}{6}, \frac{2}{3}$$

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

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

10. Simplify:  $2,928 \div 8 =$

11. Multiply using mental math:

a.  $45 \times 100$

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

b.  $7,041 \times 10$

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

c.  $38 \times 10,000$

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

d.  $6.2 \times 1,000$

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

12. Simplify the fractions below:

a.  $\frac{12}{15}$

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

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

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

c.  $\frac{44}{72}$

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

d.  $\frac{60}{96}$

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

13. You bought 3 pounds of apples at \$2.39 per pound. How much change will you receive if you paid with a \$20 bill?

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

14. Insert parentheses to make each statement true.

a.  $45 \div 5 + 4 = 5$

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

b.  $9 + 12 \div 3 - 1 = 15$

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

c.  $1 + 6 \times 8 - 3 = 53$

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

15. Write an equivalent decimal to the following.

a.  $\frac{3}{5}$

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

b.  $\frac{11}{20}$

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

c.  $\frac{47}{50}$

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

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Summer Math Packet – July Problems

Simplify.

1.  $8,988 \div 42 =$

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

2.  $34.57 + 21.44 + 60.3 =$

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

3. Write the place value for the underlined digit.

a. 412,185,250

a. \_\_\_\_\_

b. 31,005,235,398

b. \_\_\_\_\_

c. 0.116823

c. \_\_\_\_\_

d. 271.487

d. \_\_\_\_\_

4. Find the Greatest Common Factor of 18, 45 and 72.

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

5. Simplify:  $3\frac{1}{10} + 7\frac{2}{3} =$

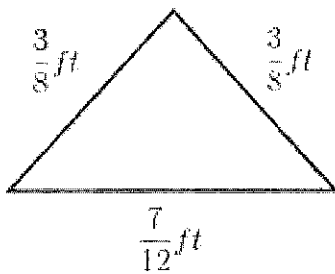
5. \_\_\_\_\_

6. Simplify:  $\frac{9}{25} \times \frac{5}{18} =$

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

7. Find the perimeter of the triangle below.

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



8. Write the following percents as decimals:

a. 30%

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

b. 83%

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

c. 42.7%

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

d. 123%

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

9. Simplify using the order of operations:

$$32 - 50 \div 5 + 3^2$$

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

10. Simplify the following:

a.  $12 + (-5) =$

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

b.  $(-40) + (-11) =$

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

c.  $(-18) + 30 =$

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

11. Find the volume of a rectangular prism that has a length of 5 meters, width of 2.8 meters and a height of 6.2 meters.

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

12. Divide using mental math:

a.  $485 \div 100 =$

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

b.  $39 \div 10 =$

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

c.  $45,883 \div 100 =$

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

d.  $14.2 \div 100 =$

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

13. Simplify the following:

a.  $12 \times (-3) =$

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

b.  $-11 \times (-7) =$

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

c.  $(-7) \times 3 =$

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

14. A batch of cookies calls for  $2\frac{2}{3}$  cups of flour. I want to make 4 batches of cookies, how much flour do I need?

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

15. I bought a drink for \$2.29 and a sandwich. I paid a total of \$9.08 for my drink and sandwich. How much was the sandwich?

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

Name \_\_\_\_\_

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Summer Math Packet – August Problems

ANSWERS

1. Simplify:  $12 \div \frac{8}{15} =$

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

2. Simplify using the order of operations:

$$41 - 2^3 \times 5 + 11$$

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

3. Simplify each fraction:

a.  $\frac{14}{49}$

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

b.  $\frac{48}{64}$

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

c.  $\frac{24}{72}$

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

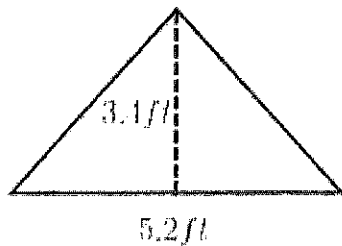
d.  $\frac{27}{90}$

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

4. Find the Greatest Common Factor of 45, 75 and 105.

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

5. To find the area of a triangle, multiply the base times the height and then divide by 2. Find the area of the triangle below.



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

6. Change each mixed number to an improper fraction.

a.  $2\frac{1}{8}$

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

b.  $7\frac{4}{5}$

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

c.  $13\frac{2}{5}$

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

d.  $19\frac{11}{20}$

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

7. Multiply or divide using mental math.

a.  $24.58 \div 100$

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

b.  $3.8 \times 1,000$

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

c.  $0.024 \times 100$

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

d.  $3.974 \div 1,000$

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

8. Simplify:  $18 \times \frac{3}{8}$

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

9. Write the following fractions as percents.

a.  $\frac{81}{100}$

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

b.  $\frac{13}{50}$

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

c.  $\frac{2}{25}$

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

d.  $\frac{17}{20}$

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

10. Multiply:  $32.7 \times 0.83 =$

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

11. Find the GCF and LCM of 45 and 30

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

12. Change the following mixed numbers to improper fractions.

a.  $4\frac{3}{5} =$

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

b.  $7\frac{2}{9} =$

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

c.  $11\frac{7}{8} =$

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

d.  $16\frac{2}{3} =$

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

13. I bought some detergent for \$11.99, bananas for \$1.38, and chips for \$4.29. If I gave the cashier a \$20 bill, how much change did I receive?

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

14. Divide:  $\frac{21}{25} \div \frac{9}{10} =$

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

15. To find the circumference of a circle, multiply  $\pi$  times the diameter. Find the circumference of a circle that has a diameter of 5.2 cm. Use 3.14 for  $\pi$ .

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