

Name _____

Summer Math Review Questions
Rising 6th Grade



This packet is to help you keep your math skills sharp over the summer break and is due when we return to school in September. Work should be completed on a separate piece of paper. Please show all work when possible. You are encouraged to complete a few questions each week and should not wait until the end of summer to complete everything. It is okay to ask for help from an adult!

1.) Find each sum or difference.

a.) $17 - 5.47$

b.) $16.35 + 1.0982$

c.) $5.07 + 3.98$

d.) $42.7 + 4.036 + 8.1$

e.) Leo gave the cashier \$60 for a CD set priced at \$52.98. How much change did Leo receive?

2.) Find each product.

a.) 55.8×0.04

b.) 32.7×4.9

c.) 3.89×5.9

d.) 4.68×0.67

e.) Ground beef sells for \$.259 per pound. Find the price for 4.5 pounds of ground beef.

3.) Use the order of operations to evaluate each expression.

a.) $14 - 6 \div 2$

b.) **Number Sense:** Would the value of $(12 - 4) \div 2 + 7$ change if the parentheses were removed? Explain your thinking.

c.) $16 - (4 + 9)$

d.) $4 + 2 \times 6$

e.) $4 \times (6 - 1.5)$

f.) $(15 - 8) \times (2 + 6)$

g.) $0.25 \times 8 + (15 \div 5)$

h.) $12 \times (10 - 3) + (1.8 \div 3)$

i.) $(25 + 5) \div (6 - 1)$

j.) $(10 - 7) \times 5 - 2 \times 3$

k.) **Number Sense:** Which is greater, $1 \times 7 + 4$ or $1 + 4 \times 7$?

4.) Find each quotient. Check your answers by multiplying. (Round to the nearest cent if necessary.)

a.) $\$8.72 \div 24$

b.) $\$9.80 \div 55$

c.) $\$97.50 \div 78$

d.) $\$102.77 \div 43$

e.) $\$2.97 \div 38$

f.) $\$40.14 \div 30$

g.) $\$110.08 \div 43$

h.) Sara has been offered two part-time jobs this summer. The first job, at a garden center, pays \$136.00 for every 16 hours worked. The second job, at the community swimming pool, pays \$199.50 for every 21 hours worked. Which job would pay Sara more per hour?

5.) Write each improper fraction as a mixed number.

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

b.) $\frac{26}{5}$

c.) $\frac{10}{3}$

6.) Write each mixed number as an improper fraction.

a.) $3\frac{4}{9}$

b.) $4\frac{1}{2}$

c.) $6\frac{3}{5}$

7.) **Reasoning:** Can an improper fraction equal one? Can it be less than 1? Explain.

8.) Write each fraction in simplest form.

a.) $\frac{20}{100}$

b.) $\frac{3}{63}$

c.) Marcy is working on her homework. She thinks that $\frac{45}{95}$ is in simplest form. Without finding all the factors, how do you know she is incorrect?

9) Write $>$, $<$, or $=$ for each comparison. You may use fractions strips or drawings to help.

a.) $\frac{1}{4}$ $\frac{2}{8}$

b.) $\frac{3}{10}$ $\frac{2}{10}$

c.) Charles swam $\frac{7}{8}$ mile. Mary swam $\frac{7}{12}$ mile. Who swam farther?

10) Compare. Write $>$, $<$, or $=$ for each comparison.

a.) $5\frac{1}{9}$ $5\frac{2}{5}$

b.) $\frac{2}{7}$ $\frac{1}{6}$

11) Order the numbers from the least to the greatest.

a.) $\frac{4}{5}$, $\frac{4}{7}$, $\frac{9}{10}$, $\frac{7}{8}$

12) Each student is given the same book to read. Bret read $\frac{4}{5}$ of the book. Cale read $\frac{2}{3}$ of the book. Cheri read $\frac{5}{6}$ of the book. Who read the most?

13) Estimate the sum first. Then add. Simplify, if necessary.

a.) $8\frac{3}{4}$ + $5\frac{1}{6}$

b.) $4\frac{3}{5}$ + $2\frac{3}{10}$

c.) $7\frac{5}{12}$ + $6\frac{3}{4}$

d.) $2\frac{9}{10}$ + $2\frac{1}{4}$

e.) $1\frac{7}{8}$ + $2\frac{1}{4}$

f.) $4\frac{1}{24}$ + $5\frac{1}{16}$

g.) Mrs. Kern placed $2\frac{1}{4}$ lb of bananas and $3\frac{3}{8}$ lb of grapes into a basket. If the basket weighs $\frac{1}{2}$ lb by itself, how much did the basket with the fruit weigh?

14) Estimate the difference first. Then subtract. Simplify, if necessary.

a.) $2\frac{7}{8} - 1\frac{1}{2}$

b.) $8 - 3\frac{3}{7}$

c.) $6\frac{5}{6} - \frac{3}{4}$

d.) $3\frac{1}{2} - 1\frac{7}{8}$

e.) $4\frac{7}{10} - 2\frac{5}{6}$

f.) One tree is $19\frac{1}{2}$ feet tall. Another tree nearby is $16\frac{3}{4}$ feet tall. What is the difference in their heights?

15) Multiply or Divide Fractions

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

b) $\frac{4}{9} \times 12 =$

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

d) $30 \times \frac{5}{8} =$

e) $15 \div \frac{3}{5} =$

f) $\frac{3}{8} \div 12 =$

g) How many $\frac{1}{5}$ s are in 1?

h) How many $\frac{2}{5}$ s are in 4?

i) $\frac{2}{9} \div \frac{1}{6} =$

j) $\frac{5}{6} \div \frac{3}{4} =$

16) Find the area of each figure.

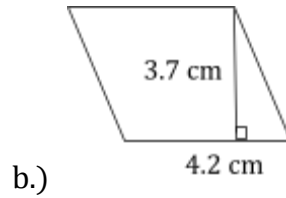
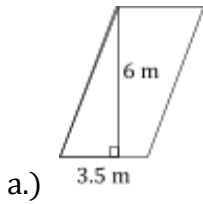
a.) A square with a side of 25 ft

b.) A rectangle with sides of 4.7 cm and 6.5 cm

c.) A rectangle with sides of 7 mi and 9 mi

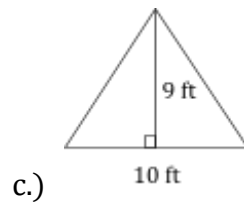
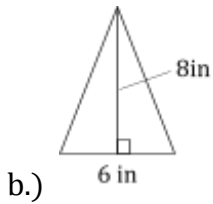
d.) The area of a rectangle is 36 ft^2 . If it is 9 ft long, how wide is it?

17) Find the area of each parallelogram.

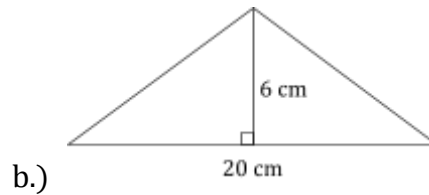
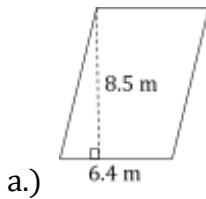


18) Find the area of each triangle.

a.) The base of a right triangle is 4 cm and its height is 9 cm. What is the area of the triangle?



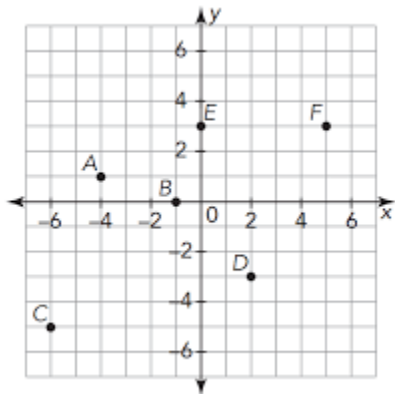
19) Find the area of each parallelogram or triangle.



20) What is a coordinate plane?

21) How many quadrants are there and what are their signs?

22) Use the coordinate plane to answer the following questions:



- Name the point at the ordered pair: $(-1, 0)$
- Name the point at the ordered pair: $(-6, -5)$
- Write the ordered pair for point E.
- Write the ordered pair for point A.

23) Write each word phrase as an expression:

a) the difference of y and 9

b) Rhonda is 3 years younger than Joe. Use j for Joe's age and write an expression to show Rhonda's age.

c) the product of n and 7

d) the quotient of x and 2

24) Solve the equation:

a) $7m = 56$, $m = ?$

b) $12p = 0$, $p = ?$

c) $4x = 3x + 5$

d) $2x + x = x + 8$

e) $3x + 1 = x + 7$

f) $4x + 2 = 3x + 9$

g) $5x + 2 = 2x + 14$