

Rising 7th Grade Math

Summer Break Work

Scholar's Name _____

Parent's Signature _____

Welcome to 7th grade! It is going to be a GREAT year! 😊
This packet is due on the first day of school. You must show meticulous work for every question and use all of your smart strategies so your teacher can see what you have mastered and what you still need help with. You should not use a calculator on any problem.

1. ADD/SUB FRACTIONS

Solve the following problems. All your answers should be fractions in lowest terms.

a. $\frac{4}{7} + \frac{2}{7}$

b. $\frac{3}{5} + \frac{4}{5}$

c. $\frac{6}{7} - \frac{2}{7}$

d. $\frac{8}{10} - \frac{4}{10}$

e. $\frac{4}{5} + \frac{2}{3}$

f. $\frac{4}{10} + \frac{4}{5}$

g. $\frac{9}{14} - \frac{3}{7}$

h. $\frac{7}{9} - \frac{1}{6}$

2. ADD/SUB MIXED NUMBERS

Solve the following problems. All your answers should be simplified fractions

a. $12\frac{4}{7} - 9\frac{5}{6} =$

b. $9\frac{2}{5} + 6\frac{9}{15} =$

c. $5\frac{3}{4} - 2\frac{4}{5}$

d. 39 hundredths + 123 hundredths

e. $7\frac{3}{8} - 5\frac{3}{4}$

f. $6 - 2\frac{2}{6}$

3. ADD/SUB DECIMALS

Solve the following problems. Show your work. Your answers should be decimals.

a. $0.56 + 2.9$

b. $145.98 + 5678.9$

c. $7.65 - 4.2$

d. $100.04 - 98.9$

e. $345.593 + 500.45$

f. $204.7 - 77.891$

4. MULT/DIV WHOLE NUMBERS. Solve the following problems. Show your work.

a. 65×9

b. $89 \bullet 17$

c. 467×8

d. 654×25

e. $874 \div 5$

f. $3567 \div 12$

5. MULT/DIV FRACTIONS. Solve the following problems. All your answers should be simplified fractions.

a. $\frac{2}{3} \times \frac{5}{6}$

b. $\frac{15}{30} \div \frac{8}{11}$

c. $7\frac{1}{4} \times 5\frac{5}{6}$

d. $9 \bullet 1\frac{3}{5}$

e. $8 \div \frac{1}{7}$

f. $5\frac{6}{7}(3)$

g. $10\frac{2}{6} \bullet 6\frac{1}{6}$

h. $\frac{1}{5} \div 6$

6. MULT/DIV DECIMALS. Solve the following problems. Show all work.

a. $1.15 \div 12 =$

b. $2.32 \bullet 15$

c. $255.5 \div 0.5 =$

d. $0.006(1.5)$

7. SOLVE FRACTION WORD PROBS

For each of the following word problems, write a clear number sentence and solve. Circle your answer.

- a. Josiah has 12 gallons of juice for his party. When he was getting ready, he spilled $\frac{2}{3}$ of it. How much juice did he spill?
- b. Jonny has 12 gallons of juice for his party. When he was getting ready, he spilled $\frac{3}{4}$ of a gallon. How much juice does he have left?
- c. Erica had 4 pizzas. Each pizza has eight slices. She gave her brother half of a pizza. How much pizza does she have left?
- d. Four boys shared $\frac{1}{3}$ of a pie equally. What fraction did each boy receive?
- e. Terah has 6 pints of chocolate. He has to equally split the chocolate into 16 bowls. How many pints of chocolate will go into each bowl?
- f. Kylie used $\frac{1}{3}$ of a stick of butter in the peanut butter cookies. She used 4.9 sticks of butter in the chocolate chip cookies. How many sticks of butter did she use in all?

8. Write the number sentence to match the written expression:

- a. Three less than the sum of four and a number
- b. Subtract 12 from the product of 8 and a number
- c. Five times the difference of a number and ten
- d. Add 6 to the quotient of 6 and a number
- e. Sally rents a life jacket for a one-time fee of \$5. She then rents a canoe for \$15 per hour. Write an expression that represents the total cost, in dollars, to rent the life jacket and the canoe for h hours?

9. Solve the following expressions, if w equals 12:

- a. $7(w - 5)$
- b. $4w + 8$
- c. $10(w + 6)$

10. Which of these expressions are equivalent to $\frac{p}{3}$? Select all that apply.

- a. $p - \frac{2}{3}p$
- b. $\frac{3p}{9}$
- c. $\frac{1}{3}p$
- d. $\frac{1}{3}p + \frac{1}{3}p + \frac{1}{3}p$
- e. $p-3$
- f. $3 \div p$

11. Which of the following is equivalent to 10^5 ? Select all that apply.

- a. 10×5
- b. $10 \times 10 \times 10 \times 10 \times 10$
- c. 5×10
- d. 10,000
- e. 100,000

12.

716,504,113.992

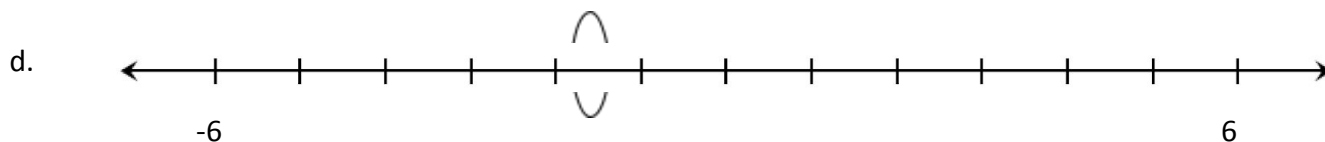
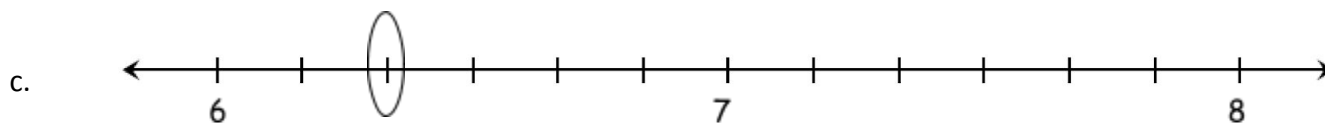
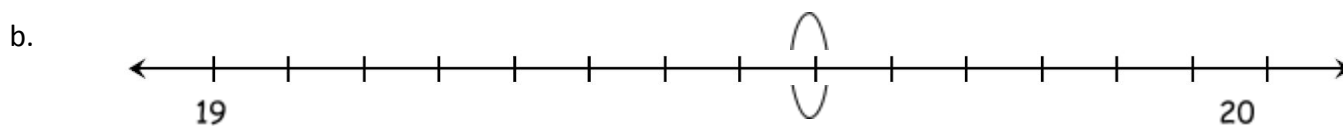
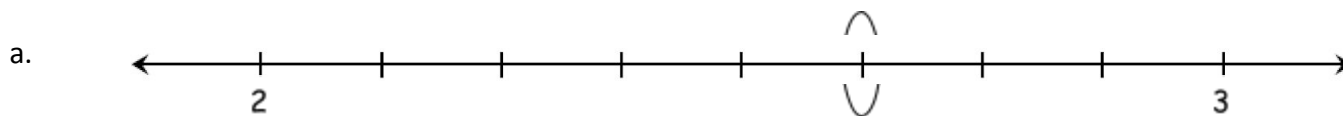
a. Round this number to the nearest ten thousand: _____

b. Round this number to the nearest whole: _____

c. Round this number to the nearest hundredth: _____

d. Round this number to the nearest hundred: _____

13. For the number lines below, label the circled hash mark.



14. ORDER OF OPERATIONS. Solve all problems in the correct order.

a. $(8 - 3) + 10 \div 5$

b. $(14 + 18) \cdot 3 + 5$

c. $(10 + 22 - 2) \div 5$

d. $(12 + 28 - 4) \div (2 + 6)$

15. COMBINE LIKE TERMS. Write all expressions in simplest form.

a. $a + a$

b. $a + 2a$

c. $a + 3a + b$

d. $25x + 2y - 19x - y$

e. $d + 2d + 3e + d$

f. $2(x + 3y) - 2x$

18. SOLVING EQUATIONS. Solve the following equations. Show your work and check it.

a) $y + 6 = 20$

b) $12 + z = 15$

c) $2 + n = 16$

d) $m - 5 = 10$

e) $2x = 16$

f) $k \bullet 2 = 6$

g) $3h = 27$

h) $6p = 30$

i) $\frac{x}{8} = 2$

j) $\frac{2}{3}x = 4$

