

Mid-Winter Recess

7th Grade Math

Homework Packet

Name: _____

Class: _____

Teacher: _____

Name : _____

Score : _____

Teacher : _____

Date : _____

1) $(-83) + (-44) =$

2) $(+86) + (-56) =$

3) $(+90) + (+42) =$

4) $(+13) + (+96) =$

5) $(-36) + (+10) =$

6) $(+95) + (+66) =$

7) $(+41) + (-99) =$

8) $(+58) + (-99) =$

9) $(+92) + (-29) =$

10) $(+1) + (-91) =$

11) $(-47) + (+97) =$

12) $(+84) + (-60) =$

13) $(+85) + (+8) =$

14) $(+35) + (+3) =$

15) $(-85) + (-64) =$

16) $(+18) + (+58) =$

17) $(+2) + (+37) =$

18) $(+91) + (+49) =$

19) $(+27) + (+41) =$

20) $(+36) + (+17) =$



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Working with the Properties of Mathematics

- 1) Which operation will not change the value of any nonzero number ?
- A. Adding One
B. Dividing by Zero
C. Multiplying by Zero
D. Multiplying by One
- 2) Which equation shows the Identity Property of Multiplication ?
- A. $a \times 1$
B. $a(b + c) = ab + ac$
C. $a + a + a = 3 \times a$
D. $(a + b) + 4 = a + (4 + b)$
- 3) Which property is used in the following expression ? $(a \times b) \times c = a \times (b \times c)$
- A. Associative Property of Multiplication
B. Distributive Property
C. Commutative Property of Addition
D. Associative Property of Addition
- 4) Which property is used in the following expression ? $(7 \times 8) \times 2 = 8 \times (2 \times 7)$
- A. Associative Property of Addition
B. Distributive Property of Multiplication
C. Associative Property of Multiplication
D. Commutative Property of Addition
- 5) Which property is used in the following ? $3 \times (8 + 2) = 3 \times 8 + 3 \times 2$
- A. None of the above
B. Distributive Property
C. Associative Property
D. Commutative Property
- 6) Which property of addition is used in the following ? $(7 + 6) + 5 = 7 + (6 + 5)$
- A. Commutative Property
B. Associative Property
C. Distributive Property
D. Identity Property
- 7) Which of the following does not show the Commutative Property of Addition ?
- A. $3x + 4y = 4y + 3x$
B. $a + b = b + a$
C. $8 + x = x + 8$
D. $ab = ba$
- 8) Simplify this expression : $9(y + z)$
- A. $9y + 9z$
B. $9z + y$
C. $9yz$
D. $9y + z$
- 9) Which equation shows the Commutative Property of Multiplication ?
- A. $4 \times 1 = 4$
B. $9 \times 6 - 8 \times 6 = (9 - 8) \times 3$
C. $3 \times 3 = 3 + 3 + 3$
D. $7 \times 2 = 2 \times 7$
- 10) Which Property of Multiplication is shown ? $(5 + 8) \times 3 = 5 \times 3 + 8 \times 3$
- A. Commutative Property
B. Associative Property
C. Identity Property
D. Distributive Property



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Working with the Properties of Mathematics

11) Which Property of Addition does $7 + 0 = 7$ illustrate ?

A. Distributive Property

B. Identity Property

C. Zero Property

D. Commutative Property

12) Which is an example of Identity Property of Addition ?

A. $8 \times 1 = 8$

B. $9 + 0 = 9$

C. $6 + 4 = 4 + 6$

D. $(4 + 7) + 5 = 4 + (7 + 5)$

13) Which is an example of Associative Property of Addition ?

A. $2 + 0 = 2$

B. $6 + (-6) = 0$

C. $(9 + 4) + 3 = 9 + (4 + 3)$

D. $8 + 9 = 9 + 8$

14) Which of the following does not show the Commutative Property ?

A. $xy - 8 = xy$

B. $yx = xy$

C. $4 + y = y + 4$

D. $x + y = y + x$

15) Which property is used in the following expression ? $5(9 + 4) = 45 + 20$

A. Associative Property of Multiplication

B. Distributive Property

C. Associative Property of Addition

D. Commutative Property of Addition

16) Which of the following is an example of Commutative Property of Addition ?

A. $7 + 9 = 9 + 7$

B. $4 \times 1 = 4$

C. $2 + 8 = 3 + 2$

D. $(9 + 5) + 6 = 9 + (5 + 6)$

17) Which property would you use to simplify the following expression ? $3(y + 5)$

A. Associative Property

B. Commutative Property

C. Multiplication Property of Zero

D. Distributive Property



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Equivalent Ratios

Write two equivalent ratios.

1)

5		
9		

2)

3		
5		

3)

5		
7		

4)

2		
11		

5)

11		
5		

6)

8		
11		

Determine whether the ratios are equivalent.

7) $\frac{4}{5}$ and $\frac{24}{30}$ _____

8) $\frac{10}{3}$ and $\frac{30}{9}$ _____

9) $\frac{7}{9}$ and $\frac{28}{36}$ _____

10) $\frac{8}{5}$ and $\frac{56}{35}$ _____

11) $\frac{10}{7}$ and $\frac{20}{14}$ _____

12) $\frac{11}{10}$ and $\frac{33}{30}$ _____

Use equivalent ratios to find the unknown value.

13) $\frac{n}{24} = \frac{5}{6}$ n = _____

14) $\frac{7}{5} = \frac{b}{15}$ b = _____

15) $\frac{20}{f} = \frac{5}{11}$ f = _____

16) $\frac{9}{11} = \frac{b}{33}$ b = _____

17) $\frac{12}{7} = \frac{60}{z}$ z = _____

18) $\frac{10}{11} = \frac{70}{z}$ z = _____



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Converting Between Percents, Decimals, and Fractions

Convert Fraction to Decimal

$$\frac{3}{10} =$$

$$\frac{5}{8} =$$

$$\frac{1}{8} =$$

$$\frac{8}{10} =$$

$$\frac{9}{10} =$$

$$\frac{9}{20} =$$

$$\frac{2}{10} =$$

$$\frac{15}{16} =$$

$$\frac{1}{10} =$$

$$\frac{17}{40} =$$

$$\frac{7}{8} =$$

$$\frac{19}{40} =$$

$$\frac{4}{20} =$$

$$\frac{15}{20} =$$

$$\frac{5}{8} =$$

Convert Fraction to Percent

$$\frac{3}{10} =$$

$$\frac{3}{4} =$$

$$\frac{19}{50} =$$

$$\frac{3}{8} =$$

$$\frac{1}{50} =$$

$$\frac{15}{16} =$$

$$\frac{17}{20} =$$

$$\frac{20}{25} =$$

$$\frac{5}{10} =$$

$$\frac{15}{16} =$$

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

$$\frac{19}{20} =$$

$$\frac{33}{40} =$$

$$\frac{5}{25} =$$

$$\frac{7}{16} =$$

