

## Unit 1 Test Review

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each expression.**

13)  $3 - (-8) + \left(-1\frac{5}{7}\right) - \left(-2\frac{1}{4}\right)$

14)  $\left(-1\frac{1}{3}\right) + 2\frac{1}{6} - \frac{1}{2} + \left(-1\frac{5}{7}\right)$

15)  $2\frac{3}{5} + \left(-1\frac{1}{4}\right) - 2\frac{1}{2} - \left(-2\frac{1}{2}\right)$

**Write the name of each decimal place indicated.**

16) 12.58

17) 7,226,048

18) 702

**Round each to the place indicated.**

19) 7,630.3; ones

20) 42,565.91; ones

21) 17.403; tenths

**Write each as a decimal. Round to the hundredths place.**

22)  $4\frac{82}{95}$

23)  $\frac{5}{8}$

24)  $2\frac{1}{5}$

**Find each square root.**

25)  $-\sqrt{0.36}$

26)  $\sqrt{0.64}$

Find each square root. Round to the nearest tenth.

27)  $-\sqrt{86.7}$

28)  $-\sqrt{21.011}$

29) Which property is represented by the statement

$$\frac{1}{2}(6a + 4b) = 3a + 2b$$

30) A part of Jennifer's work to solve the equation is shown below. Which property justifies her first step?

Given:  $2(6x - 3) = 11x - 1$

Step 1:  $12x - 6 = 11x - 1$

31) Which shows the associative property?  
For the ones that DO NOT, write the property they DO show.

- A)  $3 \cdot 7 = 7 \cdot 3$  \_\_\_\_\_
- B)  $5(9 + 4) = 5 \cdot 9 + 5 \cdot 4$  \_\_\_\_\_
- C)  $3 \cdot 1 = 3$  \_\_\_\_\_
- D)  $5 \cdot (9 \cdot 4) = (5 \cdot 9) \cdot 4$  \_\_\_\_\_

32) Which shows the commutative property?  
For the ones that DO NOT, write the property they DO show.

- A)  $x \cdot 7 = 7x$  \_\_\_\_\_
- B)  $a \cdot (b \cdot -1) = (b \cdot 8) \cdot -1$  \_\_\_\_\_
- C)  $m \cdot 1 = m$  \_\_\_\_\_
- D)  $2(q + p) = 2q + 2p$  \_\_\_\_\_

33) Which shows the additive identity property? For the ones that DO NOT, write the property they DO show.

- A)  $ab = ba$  \_\_\_\_\_
- B)  $-3 + 3 = 0$  \_\_\_\_\_
- C)  $r \cdot (s \cdot t) = (r \cdot s) \cdot t$  \_\_\_\_\_
- D)  $-3(x + 4) = -3x - 3 \cdot 4$  \_\_\_\_\_

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**Evaluate each expression.**

13)  $3 - (-8) + \left(-1\frac{5}{7}\right) - \left(-2\frac{1}{4}\right)$

$11\frac{15}{28}$

14)  $\left(-1\frac{1}{3}\right) + 2\frac{1}{6} - \frac{1}{2} + \left(-1\frac{5}{7}\right)$

$-1\frac{8}{21}$

15)  $2\frac{3}{5} + \left(-1\frac{1}{4}\right) - 2\frac{1}{2} - \left(-2\frac{1}{2}\right)$

$1\frac{7}{20}$

**Write the name of each decimal place indicated.**

16) 12.58

tens

17) 7,226,048

thousands

18) 702

hundreds

**Round each to the place indicated.**

19) 7,630.3; ones

7,630

20) 42,565.91; ones

42,566

21) 17.403; tenths

17.4

**Write each as a decimal. Round to the hundredths place.**

22)  $4\frac{82}{95}$

4.86

23)  $\frac{5}{8}$

0.63

24)  $2\frac{1}{5}$

2.2

**Find each square root.**

25)  $-\sqrt{0.36}$

-0.6

26)  $\sqrt{0.64}$

0.8

Find each square root. Round to the nearest tenth.

27)  $-\sqrt{86.7}$   
-9.3

28)  $-\sqrt{21.011}$   
-4.6

29) Which property is represented by the statement

$$\frac{1}{2}(6a + 4b) = 3a + 2b$$

30) A part of Jennifer's work to solve the equation is shown below. Which property justifies her first step?

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C)  $r \cdot (s \cdot t) = (r \cdot s) \cdot t$  \_\_\_\_\_  
D)  $-3(x + 4) = -3x - 3 \cdot 4$  \_\_\_\_\_