

# Math Test Review

## Test on Wednesday, April 30, 2008

For Exercises 1 and 2, use the following information: At 10:00 A.M. on a winter day in Fairbanks, Alaska, the temperature was  $-12^{\circ}\text{F}$ . Find the temperature after each of the following temperature changes.

1. Between 6:00 P.M. and 9:00 P.M., the temperature dropped  $26^{\circ}\text{F}$ .
2. Between 9:00 P.M. and midnight, the temperature changed by  $-19^{\circ}\text{F}$ .

Find the value of each expression.

3.  $(-6)^2 + 3^3 - 7$

4.  $2^3 + (8 - 5) \cdot 4 - 5^2$

5.  $(2^3 + 8) - 5 \cdot 4 - 5^2$

6.  $2^3 \cdot 3 - 5 \cdot 5^2 + 8$

7.  $2^3 \cdot 3 - 5(5^2 + 8)$

8. Fill in the blanks to make the number sentences true.

a.  $8 \times (6 + 4) = (8 \times \underline{\quad}) + (8 \times 4)$

b.  $7 \times (x + 3) = (7 \times \underline{\quad}) + (\underline{\quad} \times 3)$

c.  $(-9 \times 5) + (\underline{\quad} \times 7) = -9 \times (\underline{\quad} + 7)$

d.  $(x \times 4) + (x \times 5) = \underline{\quad} \times (4 + 5)$

e.  $8x + 12x = x \times (\underline{\quad} + \underline{\quad})$

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9. Use the Distributive Property to write an expression equal to each of the following. Then, find the value of each expression.

a.  $-3 \cdot (4 + -7)$

b.  $10 \cdot (-3 + 5)$

c.  $2 \cdot [2 - (-4)]$

10. The list below gives average temperatures (in °C) for Fairbanks, Alaska, for each month of the year, from January through December.

-25, -20, -13, -2, 9, 15, 17, 14, 7, -4, -16, -23

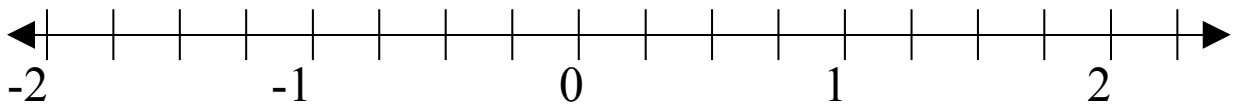
a. What is the median?   b. What is the range?   c. What is the mean?

9. Draw a number line and locate the points. Remember to choose an appropriate scale.

$-\frac{2}{8}$ ,  $\frac{1}{4}$ ,  $-1.5$ ,  $1\frac{3}{4}$

10. Find the value shown by each arrow on the number line. Choose from the list below.

$-1.25$ ,  $-\frac{1}{3}$ ,  $1.5$ ,  $-\frac{1}{6}$



**Unit Test**  
.....**Accentuate the Negative**

1. Rewrite these numbers in order from smallest to largest.

$$\frac{2}{5}, 0, -\frac{3}{2}, -\frac{9}{8}, \frac{8}{7}$$

2. Find these sums and differences.

a.  $30 - ^{-}17 =$

b.  $^{-}17 - ^{-}30 =$

c.  $^{-}150 + 75 =$

d.  $15 - 27 =$

e.  $^{-}14 + ^{-}15 =$

f.  $\frac{3}{4} + ^{-}\frac{1}{2} =$

3. Robert wrote  $9 \times ^{-}6 - (^{-}1 + 8)$ . What is the answer to Robert's calculations?

4. a. Write two subtraction sentences to complete the fact family for  $^{-}8 + n = 62$ .

- b. Use one of the fact family sentences to find the value of  $n$ .

5. Find these products and quotients.

a.  $13 \times ^{-}7 =$

b.  $^{-}8 \times ^{-}20 =$

c.  $99 \div ^{-}3 =$

d.  $\frac{-36}{-12} =$

e.  $0 \div 18 =$

f.  $\frac{1}{3} \times \frac{-5}{7} =$

**Unit Test** *(continued)*

**Accentuate the Negative**

6. Malique wants to take four of her friends to a movie. She knows it is \$5.50 for a ticket and \$3.25 for popcorn.
- How much will it cost if she pays for the movie and popcorn for all five people?
  - Write a number sentence to show how you computed the total cost.
  - Find a different way to calculate the total cost and show it in a number sentence.

7. Insert = or  $\neq$  to make the statements true.

a.  $11 + ^{-}20 \square ^{-}20 + 11$

b.  $12 - ^{-}10 \square ^{-}10 - 12$

c.  $^{-}5 \times 2 \square 2 \times ^{-}5$

d.  $^{-}16 \div ^{-}4 \square ^{-}4 \div ^{-}16$

8. Plot the following points on the grid and label each point.

a.  $(1, ^{-}5)$

b.  $(2, 0)$

c.  $(^{-}3, 5)$

d.  $(0, ^{-}2)$

e.  $(^{-}2, ^{-}2)$

