

M0308  
Review for Exam 1

Name \_\_\_\_\_

**Evaluate.**

1)  $\frac{9m}{n}$ , when  $m = 9$  and  $n = 3$

A) 9

B) 54

C) 27

D) 3

**Translate the phrase to an algebraic expression.**

2) The quotient of  $x$  divided by nine

A)  $9 + x$

B)  $9x$

C)  $\frac{x}{9}$

D)  $9 - x$

**Write a true sentence using either  $<$  or  $>$ .**

3)  $-8$   $\underline{\quad}$   $-7$

A)  $-8 > -7$

B)  $-8 < -7$

**Find the absolute value.**

4)  $\left| -\frac{1}{12} \right|$

A)  $\frac{1}{12}$

B)  $\frac{1}{6}$

C) 0

D)  $-\frac{1}{12}$

**Add.**

5)  $9 + (-11) + 4 + (-20) + 4 + (-16)$

A) -64

B) -38

C) -16

D) -30

**Find the opposite, or additive inverse.**

6)  $-\frac{1}{4}$

A) 4

B) -4

C)  $-\frac{1}{4}$

D)  $\frac{1}{4}$

**Solve the problem.**

7) Annica owes \$685.17 on her charge card. She returns for credit items costing \$30.85 and \$13.22. She makes a purchase for \$13.16 and additional purchases of \$43.56, \$181.89, and \$136.94. She then makes a payment of \$326.46. Find the amount she now owes.

A) \$690.19

B) \$592.01

C) \$778.33

D) \$680.15

8) Nikki is fishing from a bank 34 feet above water level. In this location, the fish tend to feed at 40 feet below the surface. How long must Nikki's fish line be to reach the fish?

- A) -6 feet                      B) 74 feet                      C) 6 feet                      D) -34 feet

**Multiply.**

9)  $(-8)(-14)(-3) \cdot 0 \cdot 7$

- A) -336                      B) -2352                      C) 0                      D) 2352

**Divide, if possible.**

10)  $\frac{-46}{0}$

- A) 1                      B) 0                      C) Not defined                      D) 46

**Multiply.**

11)  $4(3r + 9 + 4s)$

- A)  $12r + 9 + 4s$                       B)  $12r + 36 + 4s$                       C)  $12r + 9 + 16s$                       D)  $12r + 36 + 16s$

**Factor. Check by multiplying.**

12)  $ar - as + at$

- A)  $a(r - s + t)$                       B)  $a(r + s + t)$                       C)  $ar(1 - s + t)$                       D)  $r(a - s + t)$

**Collect like terms.**

13)  $-1 + 4m + 12n + 3m + 8n + 9$

- A)  $7m + 20n + 8$                       B)  $20m + 7n - 8$                       C)  $3m + 15n + 17$                       D)  $16m + 11n + 8$

**Find an equivalent expression without parentheses.**

14)  $-(-6 + 5y)$

- A)  $6 - 5y$                       B)  $30y$                       C)  $6 + 5y$                       D)  $-6 + 5y$

**Remove parentheses and simplify.**

15)  $-9(4r + 7) + 8(3r + 4)$

- A)  $-12r - 31$                       B)  $-99r$                       C)  $-12r + 7$                       D)  $-5r - 2$

**Simplify.**

16)  $3\{[6(x - 1) + 5] - [2(3x - 1) + 5]\}$

- A)  $12x - 4$                       B)  $-12$                       C)  $36x - 12$                       D) 0

17)  $18 + 5^2(20) - (-30)$

- A) 88                      B) 73                      C) 548                      D) 890

18)  $\frac{3 \cdot (6 + 3) + 3 \cdot 2}{3 \cdot (6 - 1)}$

A)  $2\frac{14}{17}$

B) 2

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

D)  $1\frac{16}{17}$

**Tell whether the angle is acute, right, obtuse, or straight.**

19)



A) Acute

B) Straight

C) Right

D) Obtuse

**Find the sum of the angle measures of the specified polygon.**

20) A pentagon.

A)  $900^\circ$

B)  $360^\circ$

C)  $720^\circ$

D)  $540^\circ$

**Find the missing angle measure.**

21) In  $\triangle DEF$ , the  $m(\angle D) = 91^\circ$  and the  $m(\angle E) = 32^\circ$ . Find  $m(\angle F)$ .

A)  $57^\circ$

B)  $89^\circ$

C)  $123^\circ$

D)  $47^\circ$

**Find the perimeter of the polygon.**

22) A rectangle measuring  $1\frac{2}{3}$  mm by  $3\frac{1}{2}$  mm.

A)  $10\frac{1}{3}$  mm

B)  $5\frac{1}{6}$  mm

C) 12 mm

D)  $5\frac{5}{6}$  mm

**Solve the problem.**

23) Mel plans to fence his yard for his new puppy. The yard is a 36 ft by 95 ft rectangle. Fencing costs \$14 per 10-foot section. What is the cost of the fence including unused fencing?

A) \$756.00

B) \$183.40

C) \$100.80

D) \$378.00

## Answer Key

Testname: M0308 REVIEW 1

- 1) C
- 2) C
- 3) B
- 4) A
- 5) D
- 6) D
- 7) A
- 8) B
- 9) C
- 10) C
- 11) D
- 12) A
- 13) A
- 14) A
- 15) A
- 16) B
- 17) C
- 18) C
- 19) D
- 20) D
- 21) A
- 22) A
- 23) D