

Chapter 1
Form D

Choose the correct answer to each problem.

1. Find $698 - [77 - (64 - 34)] - 24$
a. 615 b. 627 c. 499 d. 675

2. Find $\frac{2}{5} + \left(-\frac{1}{6}\right)$
a. $\frac{7}{30}$ b. $-\frac{17}{30}$ c. $-\frac{7}{30}$ d. $\frac{17}{30}$

3. Find $8 - 6 \div 2$
a. 1 b. -24 c. -1 d. 5

4. Find $\left(-\frac{7}{25}\right) \div \left(\frac{42}{50}\right)$
a. $-\frac{1}{3}$ b. $\frac{35}{50}$ c. $-\frac{2}{6}$ d. $\frac{7}{10}$

5. Find $(2^2 - 3^2) - (7 + 2)^2$
a. -68 b. -86 c. 405 d. -405

6. Find -12^2
a. -24 b. 24 c. -144 d. 144

7. Find $6 - 5(11 - 13)^2 + 3(4)$
a. 28 b. 16 c. -2 d. 38

Name _____

Date _____

8. Find $\frac{-8(12-3)^2}{8^2-3 \cdot 2}$

a. $-\frac{324}{29}$

b. 81

c. $\frac{725}{5}$

d. -16.125

9. Find $\left|-\frac{17}{19}\right|$

a. $\frac{17}{19}$

b. $1\frac{2}{17}$

c. $-\frac{17}{19}$

d. $-1\frac{2}{17}$

10. Simplify $5x - (x + 2) - 3(x - 4)$

a. $x + 14$

b. $9x - 14$

c. $x - 14$

d. $x + 10$

11. Simplify $-3[4 - 2(y + 3)]$

a. $6y + 6$

b. $6y - 30$

c. $-6y - 18$

d. $-2y - 18$

12. Evaluate $-x^2 + 2x - 4$ for $x = -2$

a. -4

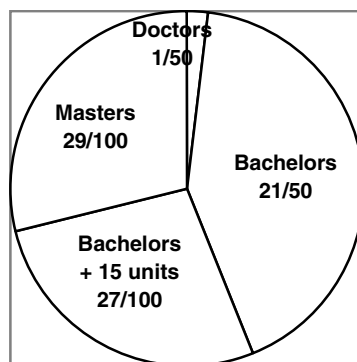
b. -64

c. -12

d. -8

13. True or False: The number -7 is an integer, a rational number and a whole number.

For problem 14, the circle graph below shows the level of education of teachers in the local school district.



14. If there are 1400 teachers in the district, how many have a Bachelor's degree only?

a. 378

b. 588

c. 406

d. 280

Name _____

Date _____

15. Identify the property or operation that is illustrated by $(x \cdot 2) \cdot 3 = x \cdot (2 \cdot 3)$.
- a. Associative property of addition
 - b. Associative property of multiplication
 - c. Commutative property of addition
 - d. Commutative property of multiplication
16. Identify the property or operation that is illustrated by $2b(a - 2) = 2ab - 4b$
- a. Associative property of addition
 - b. Commutative property of multiplication
 - c. Distributive property
 - d. Commutative property of addition
17. The formula for the area of a circle is $A = \pi r^2$, where r is the radius and π is approximately 3.14. Find the area of a circle with the radius of 4m.
- a. 12.56 m^2
 - b. 16 m^2
 - c. 157.75 m^2
 - d. 50.24 m^2
18. Choose the solution to the equation $4x - 3 = 5$.
- a. 1
 - b. -2
 - c. 5
 - d. 2
19. Choose the correct solution to the equation $5 - 2x = -9$.
- a. 2
 - b. -2
 - c. 7
 - d. -7
20. Translate to an algebraic expression or equation.
- Two less than five times a number is eight.
- a. $2 - 5x = 8$
 - b. $2x = 5(8)$
 - c. $5x - 2 = 8$
 - d. $2 - 5 = 8x$