Departmental Exam One Practice
Your Quiz/Test Contains <u>32</u> question(s).
You have ___ min. to complete the test.

First Name: ....

Last Name: ....

1) John had a balance of $5,205 in his checking account. He spent $1,522 on clothes and $148 on other expenses. What is his balance now ?

   a)$ 2,335

   b)$ 1,335

   c)$ 870

   d)$ 3,535

2) An airliner has 50 rows of seats. Each row has 3 seats on one side, 2 seats in the middle and 3 seats on the other side. How many seats are in the 50 rows ?

   a)400

   b)500

   c)250

   d)3,590

3) Find the quotient and remainder in the division 823 ÷ 15

   a)quotient = 62, remainder = 12

   b)quotient = 64, remainder = 10

   c)quotient = 54, remainder = 13

   d)quotient = 54, remainder = 3

4) Which is the smaller : -20 or -10 ?

   a)- 20

   b)- 10

   c)They are equal

5) Subtract : -42 - (-20)

   a)- 62

   b)22

   c)- 22

   d)62

6) Simplify : -6 - 34 + 44 - 4

   a)88

   b)20

   c)- 88

   d)0

7) Multiply : $(-5)(10)(-6)(-3)$

   a) - 900

   b) 900

   c) - 19

   d) 19

8) Find the quotient : $-162 \div (-9)$

   a) - 18

   b) 18

   c) - 17

   d) 17

9) Evaluate the expression $2^5 - 5^2$.

   a) 7

   b) 9

   c) 11

   d) 12

10) Which of the following statements is true ?

P : The base in 5^3 is 3   Q : The base in -3^7 is -3

   a) P only

   b) Q only

   c) Both P and Q

   d) Neither P nor Q

11) Evaluate the expression : $5^2 - 2 \times 2$

   a) 21

   b) 45

   c) 11

   d) 3

12) Simplify : $\dfrac{2^2(21 - 12)}{3(-2) - (-5)(-3)}$

   a) $-\dfrac{18}{21}$

   b) $\dfrac{18}{21}$

   c) $-\dfrac{12}{7}$

   d) $\dfrac{12}{7}$

13) Simplify: $-5 + 2(-4)$

   a) - 13

   b) 13

   c) 3

   d) - 3

14) Simplify : $4 - 4(7 - 12)$

   a) - 16

   b) - 36

   c) 24

   d) 0

15) Convert to an algebraic expression, if x stands for the unknown number : seven less than three times a number.

a) 3 - x

b) 3x - 15

c) 3 - 7x

d) 3x - 7

16) Convert to an algebraic expression and simplify, if x stands for the unknown number : the sum of twice a number and seven less than the number.

a) 2x + 5

b) 7x

c) 3x - 7

d) 5x - 2

17) Evaluate: 2x - 3y for x = 2, y = - 3

a) 12

b) 14

c) 13

d) 15

18) Three new babies were born at General Hospital weighing 6 lb, 8 lb and 7 lb. What was the average weight of the three babies?

a) 7 lb

b) 21 lb

c) 10 lb

d) 3 lb

19) Identify the solution of x + 3 = 17.

a) 10

b) 14

c) 20

d) 51

20) Solve : 5x = 125

a) x = 120

b) x = 130

c) x = 25

d) x = $\frac{1}{25}$

21) Solve the equation: 7x + 7 = 21
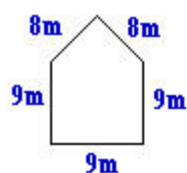
a) x = 2

b) x = 5

c) x = $\frac{2}{3}$

d) x = 14

22) If Carolyn gets a $45 raise, she will be getting $275. What is her present income ?

a) $230

b) $330

c) $165

d) $180

23) The temperature on a certain day was –20°F. How much must the temperature increase to reach the freezing point? (Freezing temperature is 32°F.)
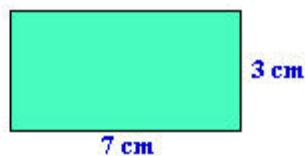
a) 52°

b) 50°

c) - 32°

d) 56°

24) Find the area of the rectangle.

3 cm

7 cm

a) 21 cm

b) 21 cm^2

c) 10 cm^2

d) 28 cm^2

25) Find the perimeter of the following figure .

8m   8m

9m   9m

9m

a) 27 m^2

b) 27 m

c) 43 m

d) 45 m

26) Find the perimeter of the following figure.

8 cm

6 cm   5 cm

a) 11 cm

b) 13 cm

c) 14 cm

d) 19 cm

27) Which of the following number is not a factor of 312 ?

a) 8

b) 39

c) 6

d) 16

28) Which of the following statements is true ?
P : 11 is an odd number   Q : 21 is a composite number

a) P only

b) Q only

c) Both P and Q

d) Neither P nor Q

29) Which of the following statements is true ?

P : 25 is a prime number   Q : The prime factors of 22 are 2, 3 and 11.

a) P only

b) Q only

c) Both P and Q

d) Neither P nor Q

30) Find the LCM of 5, 4 and 8 by listing multiples.

a) 30

b) 60

c) 48

d) 40

31) The fraction $\dfrac{60}{168}$ reduced to lowest terms is

a) $\dfrac{15}{42}$

b) $\dfrac{6}{164}$

c) $\dfrac{5}{14}$

d) $2\dfrac{48}{68}$

32) Which is larger $\dfrac{2}{7}$ or $\dfrac{6}{21}$?

a) $\dfrac{2}{7}$

b) $\dfrac{6}{21}$

c) They are equal