# Printable 7th grade math test

Name Date: Solve the following problems 1, a.  $3^6 \times 3^{-14} =$ A. 3<sup>20</sup> B. 3<sup>14</sup> C. 3<sup>-8</sup> D. 3<sup>8</sup> 2. |8 - 3| - | 5 - 12| = A.-2 B.2 C.0 D.5 3. a. 20000000000 in scientific notation is A.  $2 \times 10^{-11}$  B.  $2 \times 3^{11}$  C.  $2 \times 10^{12}$  D.  $2 \times 10^{11}$ b.  $4 \times 10^{-6}$  in standard notation is A. 0.004 B. 0.000042 C. 0.000004 D. 0.00004 4. a. Which number is irrational? **A.** √(49) **B.** 1/3 **C.** √(6) **D.** 0 b. If x = 4,  $6\sqrt{25} =$ \_\_\_\_\_ 5. a. Which property is illustrated below?  $\mathbf{x} \times (2+5) = \mathbf{x} \times 2 + \mathbf{x} \times 5$ A. commutative property of addition B. Distributive property C. Distributive property of multiplication D. Multiplicative inverse b.  $(122 + x) \times 1 = 122 + x$  is an example of A. Identity property B. Distributive property of multiplication C. Identity property of addition D. Identity property of multiplication 6. You buy a computer for 500 USD. There is a 20% discount and a 6% sales tax. How much money to you pay?

7.

## If x = 2 and y = 5, the value of $x^2y + 4x =$

A. 28 B. -5 C. 20 D. 62

### 8.

Graph (2, 6) and (-1, 0) on the coordinate system and find the slope using m = rise / run

9.

Throw a coin twice.

a. Show all different outcomes

b. What is the probability of getting heads twice?

10.

Find the inequality below and then solve it \_\_\_\_\_

x + 5 = 2

2 + 0 = 2

3x + 2 > 11

4x + 9

11.

David buys a computer that cost 288 dollars. The manager decided to deduct one-fourth (1/4) of the sales price

Which expression is an approximation of what David pays after the deduction?

A. 300 × 0.25 B. 300 × 0.025 C. 300 - 300 × 0.25 D. 300 + 300 × 0.25

12.

Simplify  $(2^5 \times 4^{10} \times 6^5) / (2^3 \times 4^{10} \times 6^6)$ 

A. 4/8 B. 1/3 C. 1 D. 2/3

13.

Find the length of x



14.

Put the following equation in slope-intercept form. Then identify the slope and they-intercept

#### 5 + y = 4x

Slope-intercept form	
Slope	

y-intercept \_\_\_\_\_

15.

x% of 120 is 36. What is x?

16.

What is the measure of angle x?



17.

A box has the following dimenssions

length = 6 cm, width = 8 cm, and height = 3 cm

The volume and surface area are :

A.  $V = 144 \text{ cm}^3 \text{ and } SA = 180 \text{ cm}^2$  B.  $V = 144 \text{ cm}^3 \text{ and } SA = 110 \text{ cm}^2$  C.  $V = 120 \text{ cm}^3 \text{ and } SA = 180 \text{ cm}^2$  D.  $V = 144 \text{ cm}^3 \text{ and } SA = 180 \text{ cm}^2$  cm<sup>2</sup>

#### 18.

Solve for x.

-4x + 5 = 29

#### 19.

If you car can take you 85 miles away with 5 gallons of gas. How many gallons do you need to go 2035 miles away?

20.

The sum of two consecutive even numbers is 42. What are the two numbers? (Hint: Let the numbers be 2n and 2n+2)

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