

Math 6 Common Assessment 1 Review

Write an expression that translates between words and math.

- 1) A number increased by ten.
- 2) The product of five and a number.
- 3) Ten less than six times a number.

Evaluate using $a=5$ $b=3$ $c=6$

- 4) $a(b+c)$
- 5) $ac - b$
- 6) $\frac{ac}{b}$

Simplify using order of operations

- 7) $10 \div 2 + 15 \times 3$
- 8) $\frac{12+12}{6}$
- 9) It costs \$150 to rent a movie theater plus \$10 per person. The cost for any number of people can be found by using the expression $150 + 10x$. What is the cost of renting the movie theater for 30 people?
- 10) $(45 \div 5) \times 6 + 7 \times 2$

Identify the property illustrated in each

- 11) $(5 \times 3) \times 7 = (5 \times 7) \times 3$
- 12) $10(2 + 8) = 10 \times 2 + 10 \times 8$
- 13) $(3+6) + 7 = 3 + (6 + 7)$
- 14) $50 \times 1 = 50$
- 15) List the properties used to combine the like terms

$$6(x + 3) + 10x$$

a) $6(1x + 3) + 10x$

b) $\frac{6x + 18 + 10x}{\quad}$

c) $\frac{6x + 10x + 18}{\quad}$

$$16x + 18$$

Circle the like terms.

16) $42n$ $5n^2$ $11n$ $13n^3$

Solve showing ALL math!

17) $7m + 4 = 25$
 18) $5p - 15 = 30$
 19) $3y + 9y + 6 = 30$
 20) $3(3b + 2) = 33$

Identify the underlined part of the expression or equation.

21) $10a$ 22) 10a
 23) $24 + \text{10a}$

What did they do wrong? For the next 6 problems you need to identify what each student did incorrectly and then rework the problem so that it is correct.

- 24) Abby wrote $10-4a$ for her answer, but the question said 10 less than 4 times a number.
- 25) Hannah wrote that $10^2=20$, what did she do wrong?
- 26) Cody solved the following problem $20 \div 5 \times 2 = 2$ and his teacher marked it wrong. What is the correct way to solve this problem.
- 27) Carter said that $(5+9)+2=5+(2+9)$ was an example of the associative property of addition. What did she do wrong?
- 28) Carolina said that $4y$ and $9y^2$ were like terms. What did she do wrong?
- 29) Madeline said that $6(6a + 5)= 36a +5$. What did she do wrong?

Explain.

- 30) The coefficient of every variable without a coefficient is 1. What property allows for this?
- 31) Draw a coordinate grid- label the axes, origin, and quadrants. Put a point at $(-5, 5)$ label it B.