

SLO Post-Test Review

Examples of opposites to make zero

An example of opposites combining to equal zero:

The football team loses 12 yards. On the following play, the team gains 12 yards.

Integer rules: division, multiplication (3 decimals), adding (using variable expressions), divide fractions

A few examples of integer rules:

$$a + (-b) = \blacksquare$$

$$-a (b) = \blacksquare$$

$$^{-a}/_{-b} = \blacksquare$$

Using long division

An example of long division:

$$\begin{array}{r} 11.82 \\ 12 \overline{)141.84} \\ \underline{12} \\ 21 \\ \underline{12} \\ 98 \\ \underline{96} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

Distributive property

An example of distributive property:

$$5(2x - 6) = \blacksquare$$

Combining like terms

An example of combining like terms:

$$3x + 4y + 8 - x + 10y - 4 = \blacksquare$$

Expressions to represent perimeter of rectangle

An example of writing the perimeter of a rectangle as an expression:

If a rectangle has a length of 12 and a width of w , the perimeter of the rectangle is \blacksquare .

Distributive property with division (perimeter of equilateral triangle is $6a + 12$)

An example of distributing a fraction (or dividing):

A square has a perimeter of $20x + 32$. What is the length of each side? \blacksquare

Expression from story problem

An example of writing an expression from a story problem:

Bruno enters a fishing contest. Bruno pays an entry fee of \$30. Bruno will earn \$8 for each fish caught. The expression representing Bruno's money earned in the fishing contest is \blacksquare .

Two step equations from story problem

An example of writing an equation or inequality from a story problem:

Tara is planning a party and can spend no more than \$80. The cost of the venue is a flat rate of \$40 and each guest will cost \$9. The inequality to represent this scenario is $40 + 9g \leq 80$. If the question asked how many guests she could afford, her answer would be 5 guests.

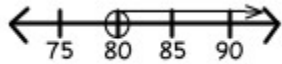
Solve two-step inequalities and plot on number line

An example of solving a two-step inequality and plotting the solutions on a number line:

$$74 - 0.8t < 10$$

$$-0.8t < -64$$

$$t > 80$$



Proportional relationships in a table

An example of a proportional relationship represented in a table:

Hours	Miles
2	100
3	150
5	250

Discount and sales tax

An example of finding a final price after a discount and sales tax:

A shirt is originally priced as \$18. There is a 20% discount on the shirt. The sales tax is 6.5%. The final price of the shirt is \$15.34.

Unit rate from a table

An example of calculating a unit rate from a table:

Apples Bought	Cost
4	\$2.00
6	\$3.00
12	\$6.00

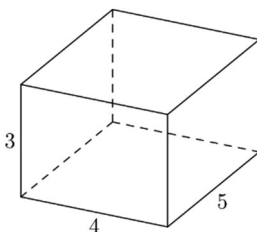
Equation from a table (proportional relationship) $y = kx$

An example of writing an equation to represent a table:

x	y
5	1
40	8
65	13

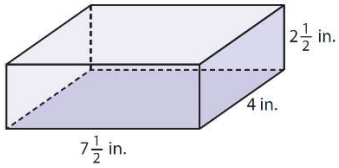
Surface area of prism

An example of calculating the surface area of a prism:



Volume of rectangular prism

An example of calculating the volume of a rectangular prism:



Likelihood given a probability

Examples of providing the likelihood provided the probability:

0.2 = _____

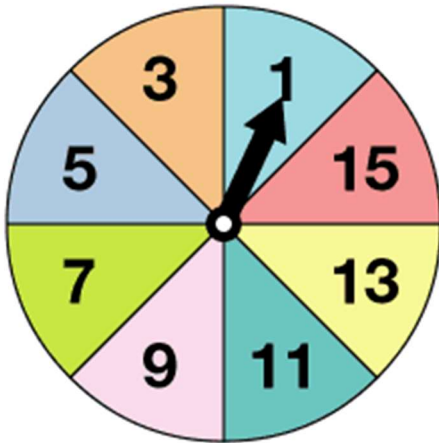
55% = _____

9% = _____

$\frac{7}{7}$ = _____

Spinner probability

Examples of finding the probability using a spinner:



P(even number) = _____

P(<7) = _____

P(13 or 15) = _____

P(spinning 9 twice in a row) = _____

Experimental probability

An example of calculating probability from experimental results:

Probability Experiment

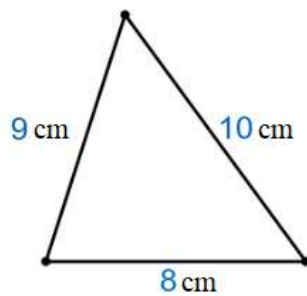
Candy Color	Number of Times Selected
Green	2
Orange	1
Purple	4
Yellow	5

Based on the results, what is the probability the next candy color selected will be green? _____

Scale drawing (find actual dimensions)

An example of finding the actual dimensions from a scale drawing:

Scale: 2cm = 3ft



What are the actual dimensions in feet?