

Name _____ Date _____ Period _____

Math 7 – End of 3rd Quarter Mixed Practice Day 4 (Think About It)

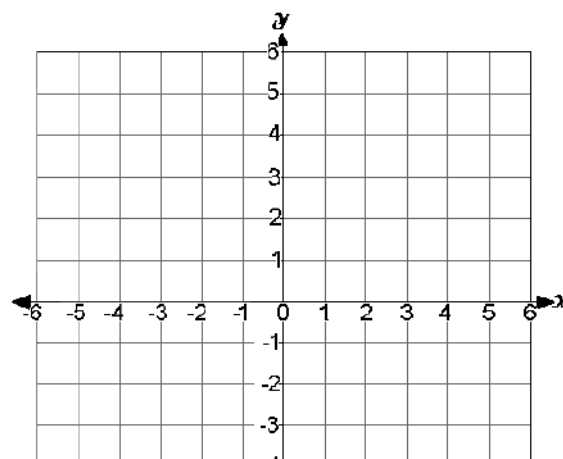
1) If point A is located at $(-5,3)$ and point B is at $(4,3)$ which is the distance?

A) $|-5| + |4|$

B) $|-5| - |4|$

C) $|-5| + |3|$

D) $|3| - |-5|$



2) Ms. Donaldson earns \$18.80 per hour for the first 40 hours she works in a week. She earns $1\frac{1}{2}$ times that amount per hour for each hour beyond 40 hours in a week. Last week Ms. Donaldson worked 45.5 hours. How much money did she earn? Show work. *1st: Split up the hours that she will be paid regular time and over time.*

45.5
Number of regular hours: _____ Overtime hours: _____

2nd: What is her regular hourly rate?: _____ Overtime hourly rate?: _____

3rd: Determine total regular pay: _____ Overtime pay: _____

4th Combine both pays together to find the total: _____

3) Graham's monthly bank statement showed the following deposits and withdrawals: -\$25.20, \$52.75, -\$22.04, -\$8.50, \$94.11 If Graham's balance in the account was \$47.86 at the beginning of the month, what was the account balance at the end of the month? Show work. NO CALC!

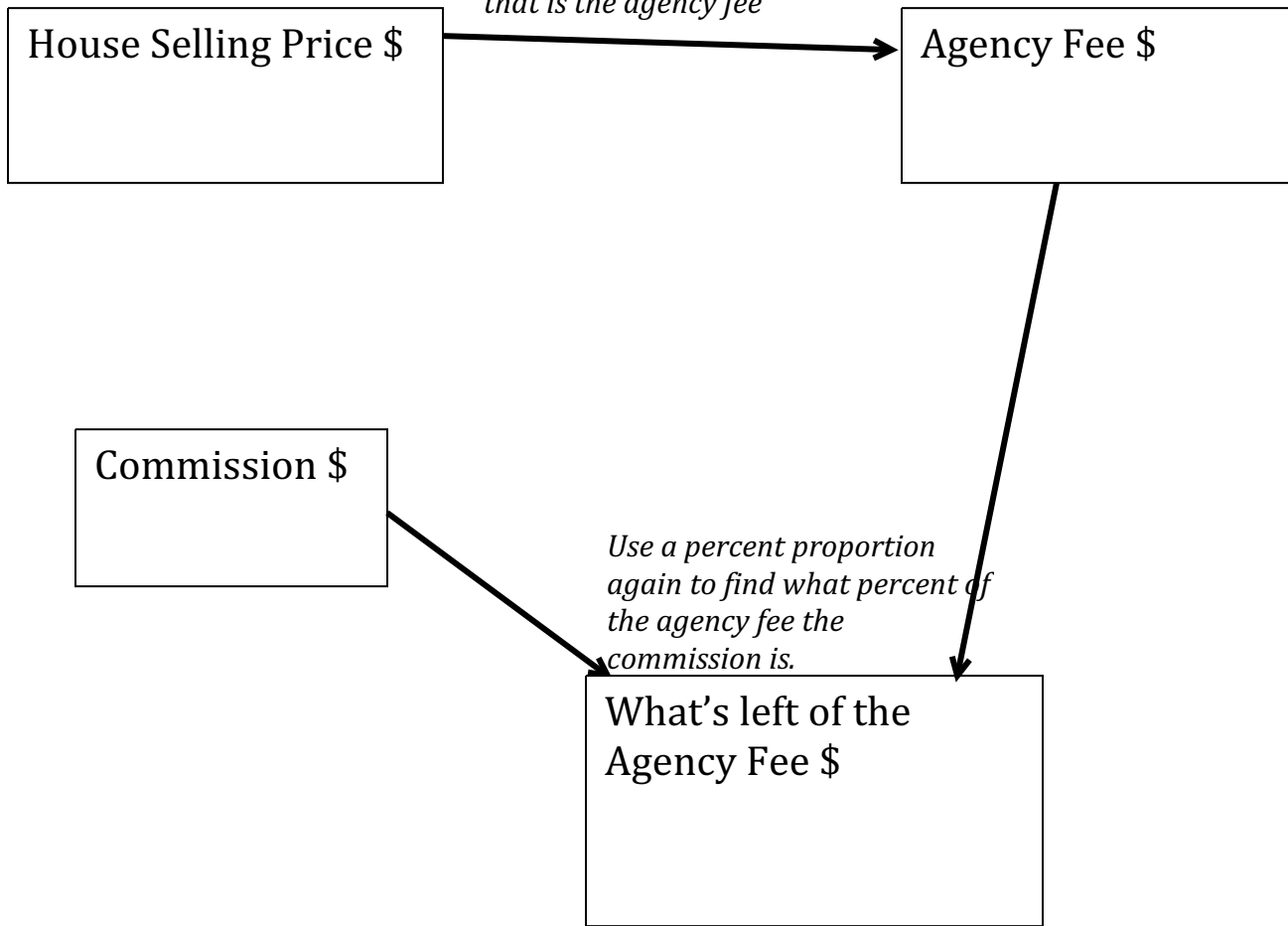
4) The circumference of a circle is 11π inches. What is the area, in square inches, of the circle? Express your answer in terms of π . Show work.

FORMULAS

Triangle	$A = \frac{1}{2}bh$
Parallelogram	$A = bh$
Circle	$A = \pi r^2$
Circle	$C = \pi d$ or $C = 2\pi r$
General Prisms	$V = Bh$

5) Mrs. Hamilton worked for a real estate agency. She sold a house for \$175,000. The agency's fee for the sale was 4% of the sale price. Mrs. Hamilton received \$4,725 of the agency's fee as her commission. What percent of the agency's fee did Mrs. Hamilton received? Round your answer to the nearest tenth of a percent. Show work.

*Use a % proportion to find
the part of the selling price
that is the agency fee*



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Math 7 – End of 3rd Quarter Mixed Practice Day 4 (Use Day 1, 2, & 3 to help!)

1) Kelsie sold digital cameras on her website. She bought the cameras for \$65 each and included a 60% markup to get the selling price. To the nearest dollar, what was the selling price for one camera? Show work.

1st Use a proportion to find 60% of the original price.

2nd: Add the mark up to the original price.

2) Which properties are shown respectively?

$$9x(2x+w-x)$$

$$9x(2x-x+w)$$

$$9x^2+9wx$$

- A) Associative and Distributive
- B) Associative and Identity
- C) Commutative and Distributive
- D) Commutative and Identity

3) A motorcycle sold for x dollars. One year later, the car was worth $0.72x$. What happened to the value of the car? *Make up a price for the motorcycle. Choose something easy to work with like \$100. Substitute into the expression then choose the % that makes the most sense.*

- A) 72% decrease
- B) 28% decrease
- C) 0.28% decrease
- D) 0.72% decrease

4) Convert $\frac{3}{11}$ to a decimal equivalent using long division. Show work. *The 3 is jumping off the diving board into the pool!*

5) Mr. Gonzalez has only \$42.50 to spend at a clothing store. He wants to buy a shirt that costs \$29, including tax, and some bracelets that cost \$4.50 each, including tax. *First draw a picture to visualize the problem. Make sure to label with prices.*

a) Write an equation to determine x, the number of bracelets Mr. Gonzalez could buy.

$$42.50 = \quad +$$

b) Solve the equation. *Reverse order of operations. Subtract then divide.*

41) What is the constant of proportionality?

x	y
8	180
11	247.5
15	337.5

42) For the first half of the year, there was a \$700 gain on the initial investment of \$20,000. Represent the gain as a percentage of the initial investment. Show work.

43) Suppose you want to buy your favorite ice cream bar while at the amusement park and it costs \$2.89. If you purchase the ice cream bar and 3 bottles of water, and pay with a \$10 bill, you receive no change. How much did each water bottle cost? Write an algebraic equation if each water bottle costs w , and solve. Show work

44) Solve the equation: $\frac{2}{3}x - 4 = 20$ Show work.

45) Simplify: $-5(4c - d) + 3d - 6(d - 2c)$ Show work.

46) Factor: $15x - 5xy + 10y$

47) Solve: $\frac{2}{3}(y + 9) = 78$ (remember to distribute first) Show work.

48) What is the area of a circle with a circumference of: $C = 20\pi$

49) Simplify $\frac{5^3}{5^6}$ (expand out the powers and look for simplification)

50) Simplify: $3(2n-6)-2(n+4)$