

9.1 Solving Proportions

NOTES

Math 7

Write your
questions here!



Ratio:

Proportion:

How many apples tall are
3 smurfs?

1) Cross Multiply

Ex 2: Mr. Kelly is so good at basketball. He can make 3 out of 8 shots.

Ratio or Proportion

How many shots does he make if he attempts 40 shots?

Ratio or Proportion

How many attempts does he need to make 21 shots?

Ratio or Proportion

Ex 2: Sully can get 5 Reese's Cups for \$2.00.

Ratio or Proportion

How much would it cost for 9 Reese's Cups?

Ratio or Proportion

How many Reese's Cups can he get for \$3.20?

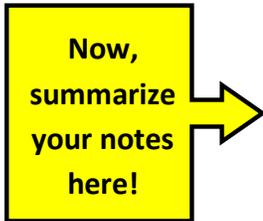
Ratio or Proportion

YOU TRY:

1) Solve the Proportion.

2) Mr. Brust paints 5 seashells in 12 minutes. How many shells can he paint in 60 minutes?

SUMMARY:



9.1 Solving Proportions

PRACTICE

Directions: Solve each proportion.

1)

$$\frac{5}{9} = \frac{x}{36}$$

2)

$$\frac{12}{y} = \frac{48}{20}$$

3)

$$\frac{z}{18} = \frac{8}{15}$$

Directions: Determine whether each situation is a RATIO or a PROPORTION. Set each up. Do not solve.

4) Mr. Sullivan can eat 12 pancakes in 8 minutes. How many pancakes can he eat in 15 minutes?

RATIO OR PROPORTION

5) Mr. Brust shoots paper into his wastebasket. He makes 4 shots for every 5 he attempts.

RATIO OR PROPORTION

6) Mr. Kelly pays \$4.00 for 8 Pez dispensers.

RATIO OR PROPORTION

Directions: Set up a proportion and then solve. Remember to label your answer.

7) Sully wins 2 out of 3 games he plays against Brust. How many games will they play if he wins 12 games?

8) Mr. Kelly guesses right 1 out of every 4 questions he takes on a test. How many questions will he get right if the test has 100 questions?

9) Brust can jump 10 times in 30 seconds on his trampoline.

a. How long will it take for him to jump 35 times?

b. How many jumps will he do in 55 seconds?

10) Sully can run 2 miles in 46 minutes.

a. How long will it take him to run 7 miles?

b. How many miles can he run in 23 minutes?

11) Mr. Kelly knows that one side of his house is 20 feet long and it takes him six strides to walk the same distance. How long is the other side of his house if it takes him 8.5 strides to walk it?

Directions: Set up a proportion and then solve. Remember to label your answer.

1) Goodyear can make 100 Tires in 45 minutes at their factory in Akron, Ohio!

a. How many tires can they make in 135 minutes?

b. How long will it take for them to make 550 tires?

2) The Algebros LOVE eating wings.

Mr. Sullivan can eat 5 buckets of wings in 2 hours. How many wings does Mr. Sullivan eat in 3 hours?

Mr. Kelly can eat 0.625 of a bucket of wings in 0.25 hour. How many wings does Mr. Kelly eat in 4 hours?

Mr. Brust can eat $\frac{3}{4}$ of a bucket of wings in $\frac{3}{10}$ hour. How many wings does Mr. Brust eat in one hour?

Which Algebro can eat the MOST wings in ONE HOUR? Explain how you know.

EXIT TICKET –

If Mr. Brust can bambam 8 jamjams in 12 whamwhams, then how many jamjams can he bambam in 33 whamwhams?