

MATH GRADE 6 2ND QUARTER EXAM

MODIFIED TRUE OR FALSE

Write **TRUE** if the statement is correct, if not change the underlined word to make the statement **TRUE**.

- 3:6 = 5:10 is an example of a direct proportion. **T**
- 8:12 = N:6, N = 2. **4**
- 50% of 350 is 125. **175**
- The sum of -12 and 4 is -16. **-8**
- The difference of -36 and -8 is -28. **T**
- The sum of -18, 3 and 15 is 1. **0**
- Ratio is a comparison of two or three quantities in fraction or in colon form. **T**
- A proportion is formed when two ratios are equal. **T**
- The first and last terms are called means, extremes.
- The second and third terms are extremes, means.
- The simplest form of 11:4 is 11/4. **T**
- Direct proportion is when quantity increases and the other decreases. **Indirect**
- Indirect proportion is when quantity decreases as the other decreases. **increases**
- Percent means 'out of 1000.' **100**
- Percent can be written as a fraction, decimal, or Ratio. **T**
- The total amount or number is base. **T**
- The part is 'what percent?' Rate.
- The percentage of a whole is the rate. **Part**
- Sale price is the price after an amount is deducted from the original price. **T**
- Discount is also called the marked price. **original price**
- The amount deducted from the original price is commission. **Discount**
- Payment an agent gets for selling is sales tax. **commission**
- Tax charged by the government is value-added tax. **T**
- Integers are positive and negative whole numbers and zero. **T**
- Zero is either positive or negative. **Neither**...nor
- For positive integers, the greater the number, the higher the value also. **T**
- For negative integers, the lesser the number, the lesser the value. **greater**

RATIO, FRACTION, PROPORTION

A. Simplify:

- 30 minutes to 1 $\frac{1}{2}$ hour

$$\frac{30}{105} = \frac{2}{7}$$

- 3 weeks to 12 days

$$\frac{3 \times 7}{12} = \frac{21}{12} = \frac{7}{4}$$

- 1200 g to 1 kg.

$$\frac{1200}{1000} = \frac{12}{10} = \frac{6}{5}$$

B. Find the missing N:

- a. $N : 8 = 3 : 12$
 $N = 2$

- a. $\frac{6}{N} = \frac{12}{15}$
 $N = 5$

- b. $36 : 8 = N : 2$
 $N = 9$

- b. $\frac{18}{15} = \frac{16}{N}$
 $N = 24$

RATIO AND PROPORTION

A. Identify if the proportion involved is direct or indirect.

- If 35 men can reap a field in 8 days, in how many days can 20 men reap the same field? **indirect**
- A bus takes 4 hours to travel from Manila to Baguio City at the rate of 80 km/h. How many hours will it take the same bus at the rate of 60 km/h? **indirect**
- 6 oxen or 8 cows can graze a field in 28 days. How long would 9 oxen and 2 cows take to graze the same field? **indirect**
- If a car covers 82.5 km in 5.5 L of petrol, how much distance will it cover in 13.2 L of petrol? **direct**
- If a car is traveling at 120 km in 2 hours, how many km will it travel in 7 hours? **direct**
- 8 taps having the same rate of flow fill a tank in 27 minutes. If two taps go out of order, how long will the remaining taps take to fill the tank? **indirect**

B. Solve each word problem. Identify the kind of proportion.

- A motorist travel 180 km in 2 hours. At the same rate, how long will it take to travel 540 km?

Asked: **At the same rate, how long will it take to travel 540 km?**

Kind of Proportion:
Direct Proportion

Solution:
 $180 : 2 = 540 : N$

$$180 / 180 = N = 6 \text{ hrs}$$

- During quarantine a stock of food for a family of 4 has enough food to eat in 12 days. If there are 6 in a family, how many days will the same amount of food last?

Asked: **If there are 6 in a family, how many days will the same amount of food last?**

Kind of Proportion:
Indirect Proportion

Solution:
 $4 : 12 = 6 : N$

$$48 / 48 = N = 8 \text{ days}$$

- Three numbers are in the ratio of 1:2:3. If the sum is 24, what is the biggest number?

Asked: **If the sum is 24, what is the biggest number?**

Kind of Proportion:
Partitive Proportion

Solution: $N + 2N + 3N = 24$
 $6N = 24$

$$N = 1 \times 4 = 4 - 1^{\text{st}} \text{ number}$$

$$2N = 2 \times 4 = 8 - 2^{\text{nd}} \text{ number}$$

$$3N = 3 \times 4 = 12 - 3^{\text{rd}} \text{ number}$$

The biggest number is: **12**

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**Mary Ann Frishman, Lucia
McKay, Maggie Guscott**

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Responsive Education Solutions,2014-11-01 Key Individual Answer Key for 5th Grade Math Units 6 10

8th Grade Math (2nd Edition) Answer Key Units 1-5 (RES)

Responsive Education Solutions,2019-08 Individual Answer Keys for 8th Grade Math 2nd Edition Units 1 5

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