MSTAR INTERVENTION

Proportionality Test

Form A

Name _____

Grade _____

Date _____

School _____

Teacher _____

Demonstrate

Are the ratios proportional?

$\frac{5}{6}$ and $\frac{8}{5}$

(A) Yes (B) No

Find the missing value.

$\frac{4}{5} = \frac{12}{x}$

(A) 48 (B) 60

(C) 3 (D) 15

STOP

Practice

Are the ratios proportional?

$\frac{6}{8}$ and $\frac{7}{10}$

(A) Yes (B) No

Are the ratios proportional?

$\frac{5}{10}$ and $\frac{7}{14}$

(A) Yes (B) No

A store advertises 2 watermelons for $6. How many watermelons for could I buy for $15?

(A) 30 watermelons (B) 5 watermelons

(C) 6 watermelons (D) Not shown

STOP

1

Which is a common denominator for the two ratios?

$\frac{6}{3}$ $\frac{10}{5}$

(A) 18 (B) 15

(C) 50 (D) 35

2

Which proportion matches the story?

It takes 72 chicken strips to feed 30 kids. Therefore, it takes 48 chicken strips to feed 20 kids.

(A) $\frac{\text{strips}}{\text{kids}}$ $\frac{72}{30} = \frac{48}{20}$ (B) $\frac{\text{kids}}{\text{strips}}$ $\frac{20}{48} = \frac{72}{30}$

(C) $\frac{\text{kids}\ 30}{20} = \frac{\text{strips}\ 48}{72}$ (D) $\frac{\text{kids}\ 72}{48} = \frac{\text{strips}\ 20}{30}$

3

Allan's watch is broken and loses 5 minutes every 4 hours. How many minutes will it lose in 1 day (24 hours)?

(A) 120 minutes (B) 30 minutes

(C) 19.2 minutes (D) 96 minutes

4

Which proportion matches the story?

Megan makes $32 for working 4 hours. This means she makes $8 per hour.

(A) $\frac{\text{dollars}}{\text{hours}}$ $\frac{8}{1} = \frac{4}{32}$ (B) $\frac{\text{dollars}\ 32}{8} = \frac{\text{hours}\ 1}{4}$

(C) $\frac{\text{hours}}{\text{dollars}}$ $\frac{32}{4} = \frac{1}{8}$ (D) $\frac{\text{dollars}\ 32}{8} = \frac{\text{hours}\ 4}{1}$

5

Are the ratios proportional?

$\frac{3}{7}$ and $\frac{4}{12}$

(A) Yes (B) No

6

Which is a common denominator for the two ratios?

$\frac{4}{8}$ $\frac{5}{10}$

(A) 80 (B) 48

(C) 50 (D) 32

7

On the map, 1 inch is 50 miles. Dove Creek and Holly are 5 inches apart on the map. What is the distance in miles?

(A) 10 miles
(B) 5 miles
(C) 50 miles
(D) 250 miles

8

Find the missing value.

$$\frac{1}{6} = \frac{4}{x}$$

(A) 24
(B) 11
(C) 18
(D) 9

9

Which proportion matches the story?

Mische can read 40 pages in 50 minutes. If she reads at a constant rate, it means that in 80 minutes, she can read 64 pages.

(A) $\frac{\text{pages}}{64} = \frac{\text{minutes}}{80}$
(B) $\frac{\text{minutes}}{\text{pages}} \quad \frac{50}{40} = \frac{64}{80}$
(C) $\frac{\text{minutes}}{\text{pages}} \quad \frac{50}{40} = \frac{80}{64}$
(D) $\frac{\text{pages}}{\text{minutes}} \quad \frac{80}{64} = \frac{40}{50}$

10

Are the ratios proportional?

$$\frac{4}{5} \text{ and } \frac{2}{3}$$

(A) Yes
(B) No

11

Find the missing value.

$$\frac{2}{6} = \frac{x}{9}$$

(A) 54
(B) 3
(C) 18
(D) 12

12

A pond has 3 plants for every 2 fish. If there are 33 plants in the pond, how many fish are are in the pond?

(A) 22 fish
(B) 6 fish
(C) 11 fish
(D) 22 plants

13

Which proportion could be used to solve the problem?

It takes a teacher 45 minutes to grade papers for 15 students. How many minutes will it take for the teacher to grade papers for 26 students?

(A) $\frac{\text{minutes}}{\text{students}} \quad \frac{x}{15} = \frac{26}{45}$

(B) $\frac{\text{minutes}}{\text{students}} \quad \frac{45}{x} = \frac{15}{26}$

(C) $\frac{\text{minutes}}{\text{students}} \quad \frac{15}{45} = \frac{x}{26}$

(D) $\frac{\text{minutes}}{\text{students}} \quad \frac{45}{x} = \frac{26}{15}$

14

Which proportion could be used to solve the problem?

Oscar makes terrific tacos. To make 8 tacos, he uses 1 pound of beef. His family is coming over and he needs to make 40 tacos. How many pounds of beef will Oscar need?

(A) $\frac{\text{pounds}}{\text{tacos}} \quad \frac{1}{x} = \frac{40}{8}$

(B) $\frac{\text{tacos}}{\text{pounds}} \quad \frac{8}{1} = \frac{x}{40}$

(C) $\frac{\text{tacos}}{\text{pounds}} \quad \frac{8}{1} = \frac{40}{x}$

(D) $\frac{\text{tacos}}{\text{pounds}} \quad \frac{40}{8} = \frac{1}{x}$

15

A store advertises 32 avocadoes for $16. How many avocadoes can you buy for $4?

(A) 128 avocados

(B) 8 avocados

(C) 64 avocados

(D) 4 avocados

16

Are the ratios proportional?

$\frac{6}{8}$ and $\frac{5}{10}$

(A) Yes

(B) No

17

Are the ratios proportional?

$\frac{12}{30}$ and $\frac{2}{5}$

(A) Yes

(B) No

18

Find the missing value.

$\frac{3}{x} = \frac{12}{32}$

(A) 8

(B) 4

(C) 36

(D) 96

19

Find the missing value.

$$\frac{x}{8} = \frac{3}{12}$$

(A) 24 (B) 4

(C) 2 (D) 96

20

Find the missing value.

$$\frac{x}{9} = \frac{4}{12}$$

(A) 36 (B) 27

(C) 3 (D) 48

21

In a class of 30 high school students, 21 students drive a car to school. What percent of students drive a car to school?

(A) 21% (B) 7%

(C) 70% (D) 30%

22

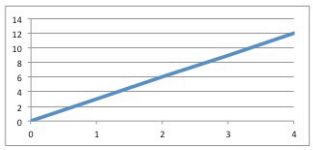
Assuming the figures are similar, find the missing value.

(A) 180 (B) 20

(C) 12 (D) 3

23

Is the relationship shown in the graph proportional?



(A) Yes (B) No

STOP