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6th Grade Proportions Worksheets

Questions

1) Write whether the given pair of ratios are in proportion.

(1) $\frac{12}{7}$ and $\frac{36}{21}$

(2) $\frac{3}{11}$ and $\frac{17}{6}$

(3) $\frac{60}{55}$ and $\frac{7}{42}$

(4) $\frac{4}{10}$ and $\frac{8}{20}$

2) At the pet care centre the ratio of cats to dogs was 8:4. For every ____ cats there are ____ dogs.



3) For every 3 card games Sarah owned 10 finger puppets. What is her ratio of card games to finger puppets?



4) The ratio of cars to motorbikes in a parking lot was 8:2. This means for every 16 cars there were ___ motorbikes.



5) At an ice cream shop the ratio of strawberry cones sold to vanilla cones sold was 1: 2 . For every 36 vanilla cone sold there were ___ strawberry cones sold.



6) The number of boys and girls in different groups at school are given in the table below. Given the numbers are in proportion, complete the table.



Boys	42	35		8
Girls		70	12	

7) The two ingredients needed to bake a chocolate cake are given in the table below. Knowing that the two ingredients are always in proportion, complete the table.



Butter	25		40	80
Cocoa Powder		6	8	

8) Emily earned \$44 in 4 hours at her job today. She wants to know about her hourly earnings at the same hourly rate. How much will Emily earn in 12 hours?

9) Sam can eat 2 burgers in 20 minutes. He is now wondering how many minutes it would take him to eat 16 burgers if he could keep the same pace.



10) A recipe for fruit smoothie needs 3 spoons of maple syrup for every 5 spoons of yogurt. How maple syrup is needed for a big jar of smoothie that uses 45 spoons of yogurt?



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1.

1) In proportion`

$$\frac{12 \times 3}{7 \times 3} = \frac{36}{21}$$

2) Not in proportion

3) Not in proportion

4) In proportion

$$\frac{4 \times 2}{10 \times 2} = \frac{8}{20}$$

6.

Boys	42	35	24	8
Girls	84	70	12	4

2.

For every 8 cats there are 4 dogs.

7.

Butter	25	30	80	80
Cocoa powder	5	6	8	16

3.

The ratio of card games to finger puppets is 3:10.

8.

\$132

4.

For every 16 cars there were 4 motorbikes.

9.

160 minutes

5.

For every 36 vanilla cones sold there were 72 strawberry cones sold.

10.

27 spoons