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Equivalent Ratios Worksheets 6th Grade

1. For the given expression, find the value of m in its simplest form:

$$22.5:9::0.25:m$$

2. If the given sets of ratios are equivalent, find the value of unknowns.

A. $z:9 = 3:27$

B. $11:13 = r:26$

3. Express each ratio as a fraction in the simplest form.

A. 4 pens to 18 pens

B. 14 miles to 36 miles

4. If $P:Q = 5:7$, $Q:R = 3:7$, find $R:P$.

5. $(a^2 - ab + b^2)$ forms a certain ratio with $(a^3 + b^3)$, in the same way, which algebraic expression will share the same ratio with $(a^3 - b^3)$?

6. If it rains 19 days out of the 171 days that were surveyed, find the ratio of the number of days it didn't rain to the number of days the survey was conducted.

7. If the base and height of a right angle triangle are in the ratio **3:4**. If the area of the triangle is **96 units²**. Find the length of the hypotenuse of the triangle.

8. Find the ratio between the triangles, circles and squares.

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9. A packaged milk of **1 litre** consists of milk and water in the ratio **7:3**. If **500mL** milk is added to this packet, find the new ratio of milk and water.

10. Jack was chosen as one of the volunteers of his school's foundation day. He had to made arrangements for the events and schedule each of the performances. He allotted **30 minutes** to a play, **45 minutes** to a dance performance and an hour to the prize distribution ceremony. Find the ratio of the time allotted to the three events.

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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	6) 8:9
2) A) 1 B) 22	7) 20
3) A) 7 B) 18	8) 3:2:2
4) 49:15	9) 4:1
5) $(a^2 + ab + b^2)$	10) 2:3:4

FUN FACT

1. Ratios can be expressed as fractions
2. Fractions can be expressed as ratios
3. Same quantities are compared using ratios

