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Equivalent Ratios Worksheets 6th Grade

1. If **81:16** and $x^2 : 256$ are equivalent to each other, find the value of x .
2. Check whether the following ratios are equivalent or not:
A. 8:5 and 7:9
B. 12:11 and 36:33
3. If the given sets of ratios are equivalent, find the values of variables.
A. **5:7 = 15:t**
B. **33:11 = q^2 : 363**
4. Express each ratio as a fraction in the simplest form.
A. **12** cars out of **28** cars
B. **14** birds to **22** birds
5. $\sqrt{121}$ and **11** share a certain ratio, in the same way $\sqrt{529}$ share the same ratio with a number. Find the number.
6. Jack can buy **11** apples at **\$1.65** from a departmental store. He can buy 12 apples at **\$1.56** online from the Amazon app. Which is a better buy for him and by how much?



7. An ice-cream has different flavours in it. If a **750mL** pack contains the flavours chocolate and strawberry in the ratio 14:11, how much more strawberry flavour must be added to it so that it contains chocolates and strawberry flavours in the same ratio?



8. Due to bad weather some flights got delayed and some got cancelled at the Ohio city airport at a particular day. If **91** flights were scheduled for that day, out of that **13** got cancelled, **39** were scheduled on time, find the ratio between the flights that were delayed to that of the total number of flights.

DEPARTURES				
FLIGHT	TIME	DESTINATION	TERMINAL	STATUS
A12	4:42	NEW YORK	K1	ON TIME
B01	12:05	BARCELONA	S2	DELAYED
G34	15:30	MILAN	T3	BOARDING
D67	22:00	SEOUL	Z4	DELAYED
R92	03:29	TOKYO	I5	DELAYED
J34	13:40	SINGAPORE	L6	ON TIME

9. A jar contains 63 cards, of which 35 are red in colour, 7 are brown and the rest are yellow. What is the ratio of the yellow coloured cards with the total number of cards?

10. A vaccine drive is going on for Covid-19 at a health centre in Virginia. $\frac{2}{5}$ of the people who came for vaccination are people between the age group **25–40** years and the rest are **45** years and above. Find the ratio of the people between the age group **25–40** years to that of the ones who are **45** years and above.



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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) 36	6) From the Amazon app by \$0.13
2) A) No B) Yes	7) 90mL
3) A) 21 B) 33	8) 3:7
4) A) 3:7 B) 7:11	9) 1:3
5) 23	10) 2:3

FUN FACT

1. If a and b are in a ratio $a:b$, then $(a-b)$ represents the difference between the two parts
2. Numbers in a ratio can be expressed in their respective simplest form by eliminating the common factor
3. In the simplest form, the numbers in the ratio only has 1 as a common factor

