

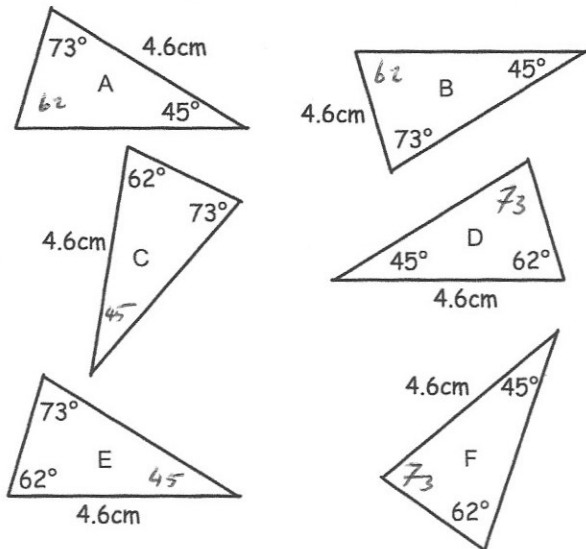


Omar writes pop, rock and country songs.
 The ratio of rock to country songs is 9:5
 12.5% of the songs are pop songs.
 $\frac{1}{8}$
 Omar has written 36 pop songs.
 $36 \times 8 = 288$

How many rock songs has Omar written?
 $288 - 36 = 252$
 $252 \div 14 = 18$
 $18 \times 9 = 162$

Which triangles are congruent?

C, D, E
 A, F



Make w the subject of

$$c = \frac{17(3a - 2w)}{5w}$$

$$5cw = 51a - 34w$$

$$5cw + 34w = 51a$$

$$w(5c + 34) = 51a$$

$$w = \frac{51a}{5c + 34}$$



A counter is selected at random, the letter recorded and the counter put back into the bag. A second is then selected.

What is the probability that both letters are different?

$$P(AA) = \frac{3}{5} \times \frac{3}{5} = \frac{9}{25}$$

$$P(CC) = \frac{2}{5} \times \frac{2}{5} = \frac{4}{25}$$

$$1 - \frac{13}{25} = \frac{12}{25}$$

Arrange in ascending order

938000 9.4×10^3 10×5^8
 9400 3906250

9.4×10^3
 938000
 10×5^8