

Calculating expected numbers based on probabilities

Based on the past 8 years of experience, the probability that an orchid will bloom in June is 1 out of 6. Knowing this, if you have 12 plants, is it probable that you will have a flower in June?

1 out of every 6 plants would be $\frac{1}{6} \times 12 = 2$ flowers



① Len's business records show that 2 out of every 3 people he called on bought something. If he makes 48 calls, how many sales should he expect to make?

$$\frac{2}{3} \times 48 = 32$$

32 sales

② So far this season, Riley has hit a home run every 5 times that she has come up to bat. If she bats 40 more times, how many more home runs can she expect to get?

③ _____

④ _____

⑤ _____

⑥ _____

Three girls ran a race. Linda was 3 seconds slower than Jane. Jane ran it in 28 seconds. Kate was 4 seconds faster than Linda. How long did Kate take?

$$\frac{7}{8} \div \frac{7}{8} =$$

$$24 \div 2 =$$

$$\frac{5}{6} \div \frac{4}{5} =$$

Rita and Anson have 13 rabbits. Anson has one more than Rita. How many rabbits does Rita have?

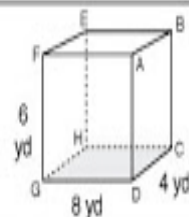
$$\sqrt{64} =$$

If you take Danny's weight in kg, subtract 22 and multiply by 5, you will get 100. How much does Danny weigh?

$$4 \overline{) 8}$$

dividend _____

Gina is 28 years old. She is 5 years younger than Mia. Ben is 4 years older than Mia. How old is Ben?



What is the area of the region bounded by

GHCD _____

ABCD _____

A 41 $\frac{1}{24}$

B 64

C 93