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WEDNESDAY 8/7/20

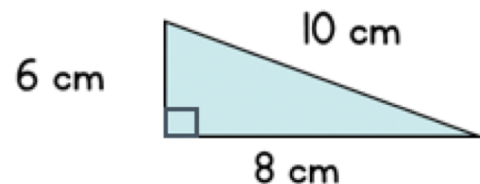
RATIO

1) Complete the sentence.

For every square, there are ___ triangles



2) Find the area of the triangle.



3) A square has perimeter 88 cm.

How long is each side of the square?

4) What do the angles on a straight line add up to?

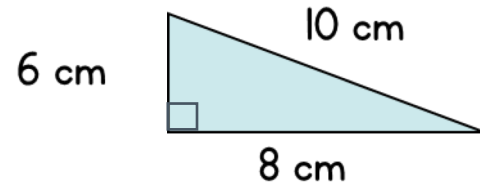
1) Complete the sentence.

For every square, there are ___ triangles

3



2) Find the area of the triangle.



24 cm²

3) A square has perimeter 88 cm.

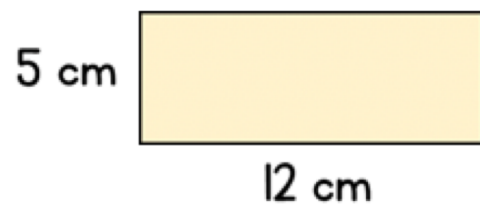
How long is each side of the square?

22 cm

4) What do the angles on a straight line add up to?

180°

- 1) The rectangle is enlarged by scale factor 4
How long are the sides of the new rectangle

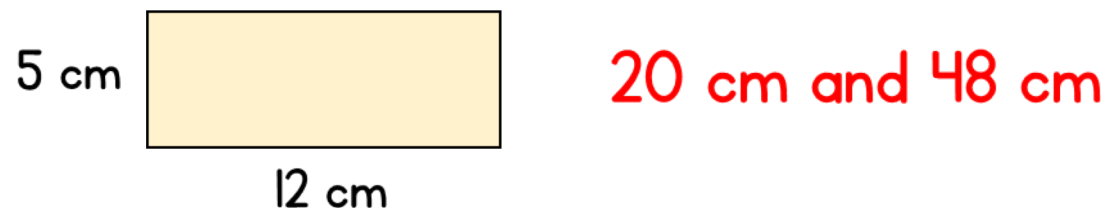


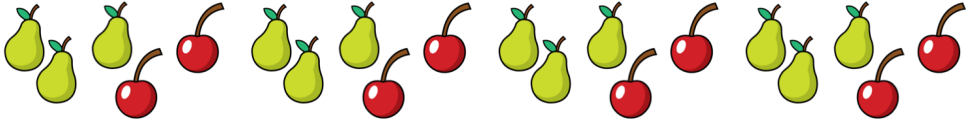
- 2) What is the ratio of cherries to pears?



- 3) How many cm is the same as 687 mm?
- 4) How many sides does a pentagon have?

- 1) The rectangle is enlarged by scale factor 4
How long are the sides of the new rectangle



- 2) What is the ratio of cherries to pears? 2 : 3
- 
- 3) How many cm is the same as 687 mm? 68.7
- 4) How many sides does a pentagon have? 5



What is the ratio of
● to ▲ ?

We write there are 3 circles for every 4 triangles
This can also be written as:

We write as 3 : 4

How do I solve a ratio question?

Question 1: In a school, the ratio of the number of students with blond hair to the number of students with brown hair is 5 : 4.

Blond Hair : Brown Hair

5 : 4

Blond hair is written first as it is mentioned first in the statement and brown hair is second.

The number 5 in the ratio matches with the blond hair as it's mentioned first and the number 4 matches with the brown hair as it is mentioned second.

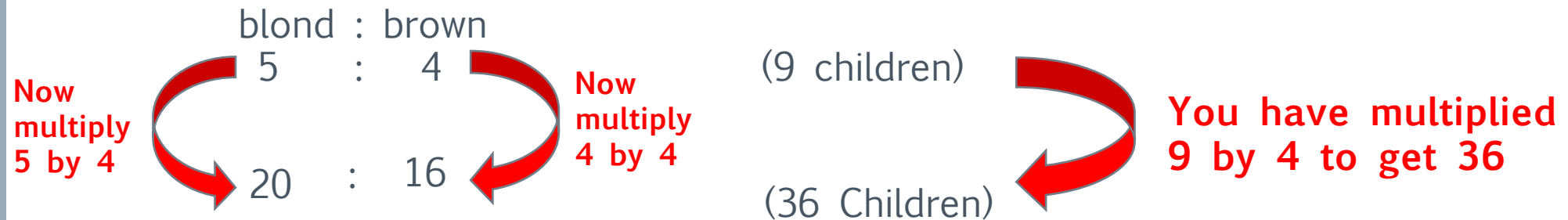
The question is: If there are 36 children in the school, how many have blond hair?

Answer

Question 1: In a school, the ratio of the number of students with blond hair to the number of students with brown hair is 5 : 4.

The question is: If there are 36 children in the school how many have blond hair?

We can set out our work in this way:



The answer is 20 children have blond hair

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In class 5 there are 2 girls for every 3 boys. There are 30 children in the class. How many boys are there?



Answer

*In class there are 2 girls for every 3 boys. We write this as 2 : 3
There are 30 children. How many boys are there?*

We can set out our work in this way:



The answer is 18 boys

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Sam mixes 1 tin of blue paint with 4 tins of white. He uses 15 tins of paint altogether. How many tins of blue paint does he use?



Answer

*1 tin of blue paint and 4 tins of white paint = 5 tins altogether
He uses 15 tins of paint altogether. How many tins of blue paint does he use?*

We can set out our work in this way:



The answer is 3 tins of blue paint

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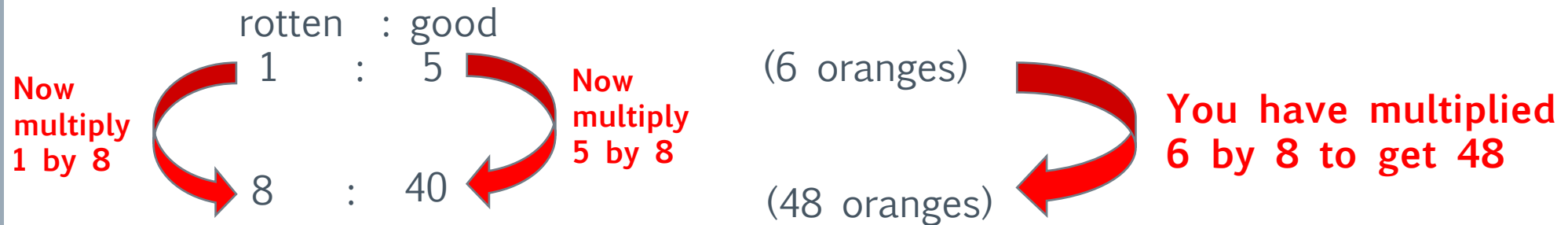
In a box of 48 oranges 1 in every 6 oranges is rotten. How many rotten oranges are there?



Answer

In a box of 48 oranges, 1 in every 6 oranges is rotten. How many rotten oranges are there?

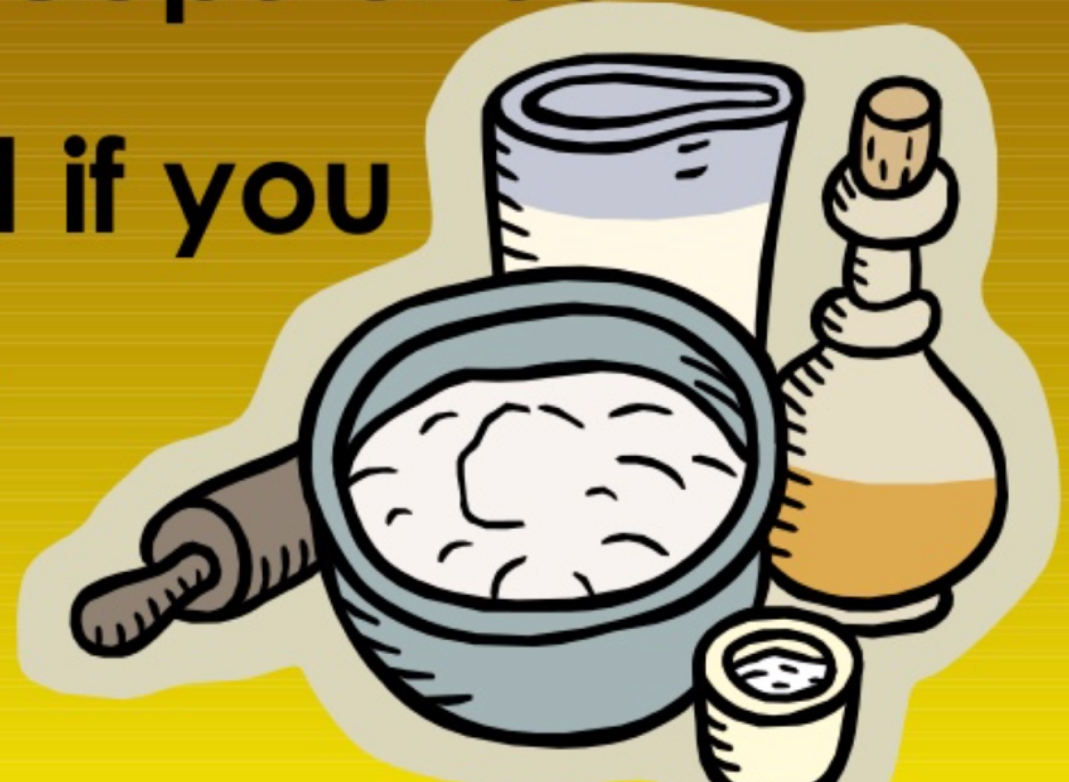
We can set out our work in this way:



The answer is 8 oranges are rotten

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To make play dough you need 2 cups of flour to every 1 cup of salt. How many cups of salt would you need if you used 10 cups of flour?



Answer

*To make play dough you need 2 cups of flour to every 1 cup of salt.
How many cups of salt would you need if you used 10 cups of flour?*

We can set out our work in this way:

	flour	:	salt	
You have x 2 by 5 to get 10	2	:	1	
	10	:	5	Now you must multiply 1 by 5

The answer is 5 cups of salt

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At the swimming club there are 3 boys for every 4 girls. How many girls are there if there are 21 boys?



Answer

At the swimming pool there are 3 boys for every 4 girls. How many girls are there if there are 21 boys?

We can set out our work in this way:

	boys	:	girls	
You have	3	:	4	
x 3 by 7				
to get 21	21	:	28	Now you must multiply 4 by 7

The answer is 28 girls

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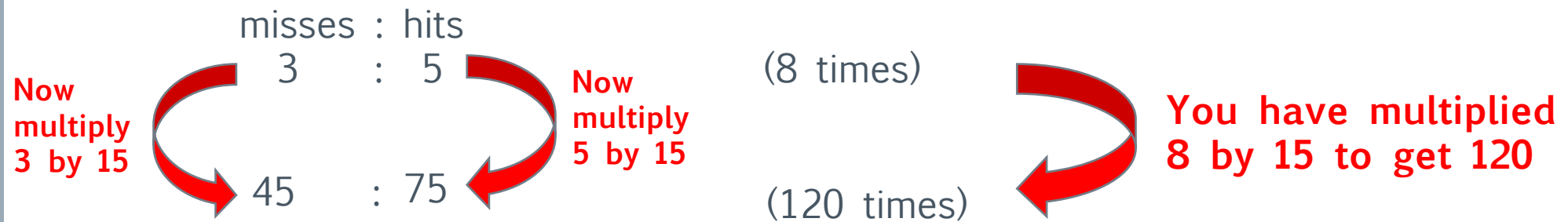
When Harry plays darts he misses the board 3 times to every 5 times he hits it. One evening, he throws 120 times. How many times does he hit the board?



Answer

Harry plays darts. He misses the board 3 times to every 5 times he hits it. One evening he throws 120 times. How many times does he hit the board?

We can set out our work in this way:



The answer is he hits the board 75 times

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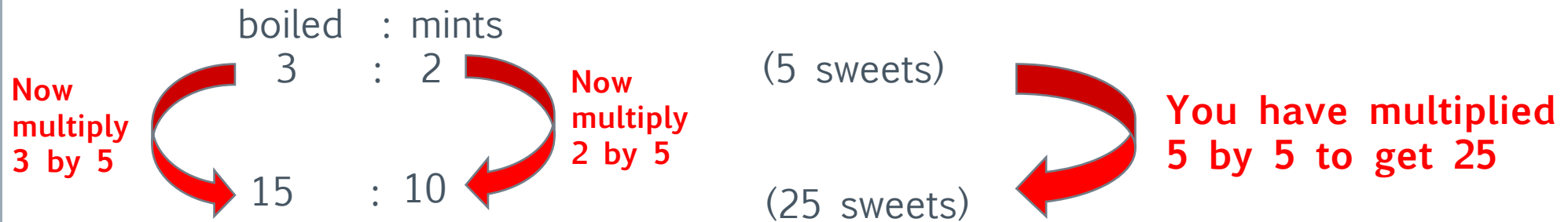
In a box of sweets, there are 3 boiled sweets to every 2 mints. If there are 25 sweets in the box altogether, how many of them are boiled sweets and how many are mints?



Answer

There are 3 boiled sweets to every 2 mints in a box of sweets. If there are 25 sweets in the box altogether, how many are boiled and how many are mints?

We can set out our work in this way:



The answer is there are 15 boiled sweets and 10 mints

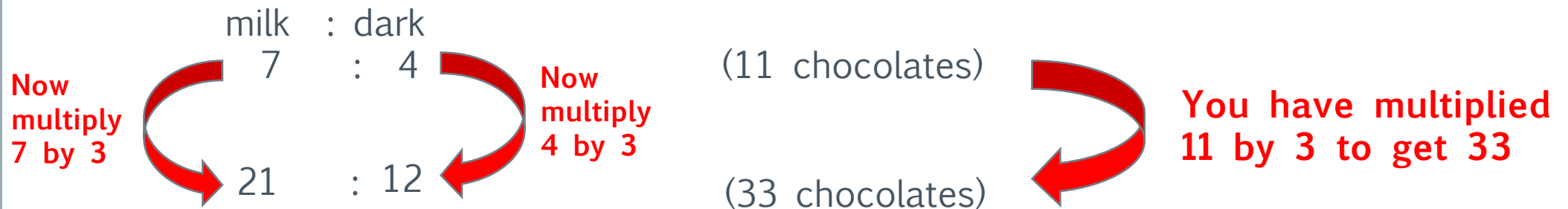
There are 7 milk chocolates to every 4 dark in a box of 33 chocolates. How many milk and dark chocolates are in the box?



Answer

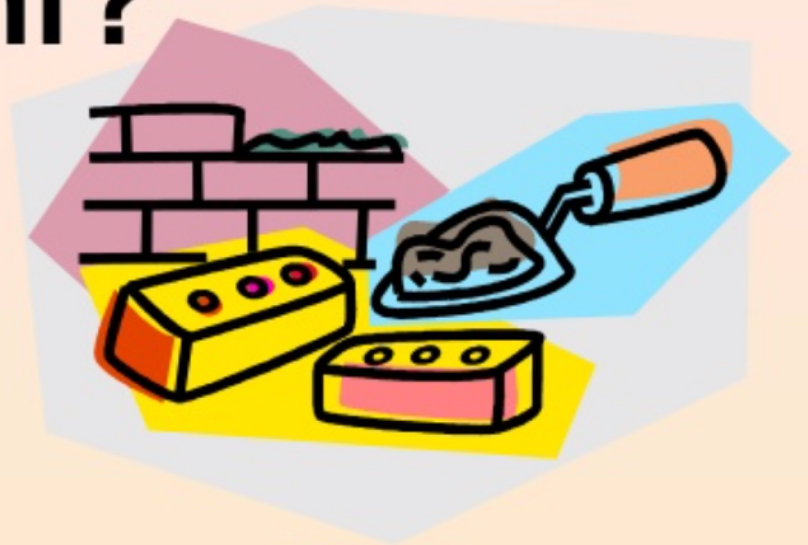
There are 7 milk chocolates to every 4 dark chocolates in a box of 33 chocolates. How many milk and dark chocolates are in a box?

We can set out our work in this way:



The answer is there are 21 milk chocolates and 12 dark chocolates

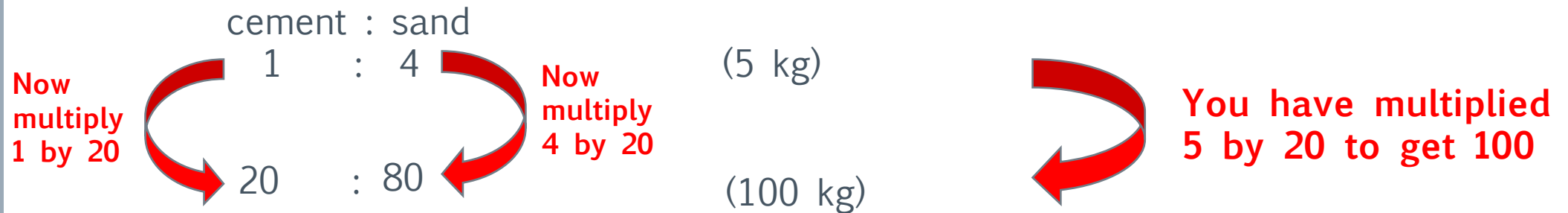
**A builder mixes one part of cement with four parts of sand to make mortar. If he mixes up 100 kg altogether, how much is cement?
How much is sand?**



Answer

A builder mixes 1 part cement with 4 parts sand to make mortar. If he mixes up 100kg altogether, how much is cement and how much is sand?

We can set out our work in this way:



The answer is there 20kg of cement and 80kg of sand