

Solve Problems with Multiplication and Division

1. Smith Street School are taking all 179 children on a day trip to the seaside. The children are put into groups of 6 but each group needs an adult. Complete the sentence below to show how many adults are needed.

_____ ÷ _____ = _____ remainder _____, so _____ adults are needed.

2. A garden centre has 960 roses for sale and is selling bunches of half-a-dozen for £24 each. How much money can be made from selling all the roses?



3. Anna wants to buy a sofa that costs £594. The shop will allow her to pay monthly, but they will charge an additional fee for this each month. Her monthly budget is £120 and she does not want to pay more than £700 in total. Which option should Anna choose?

Option A	Option B	Option C
3 months with a monthly fee of £19.	6 months with a monthly fee of £15.	9 months with a monthly fee of £12

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1a. Which operation is needed? Explain your answer.

A garden centre has 345 gnomes for sale and is selling sets of 3 for £15. How many sets of gnomes can be sold?

1b. Which operation is needed? Explain your answer.

8 friends stay in a log cabin in the woods for 4 weeks in the summer holidays. The cabin costs £247 per day. How much does the cabin cost in total?

2a. Is he correct? Convince me.



I have collected 396 conkers. I want to put them in bags that each hold 8 conkers. I calculated that I will need 49 bags.

2b. Is she correct? Convince me.



I have 276 gel pens and I want to put them in pots on my shelf. Each pot holds 7 pens. I have calculated that I will need 40 pots.

3a. Why does the remainder immediately tell us the answer is incorrect?

$$827 \div 6 = 136 \text{ r}11$$

3b. Why does the remainder immediately tell us the answer is incorrect?

$$742 \div 5 = 147 \text{ r}7$$

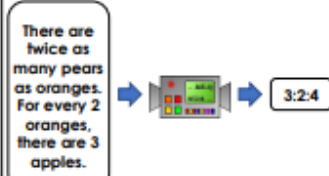
Challenge yourself.

Do not forget to learn your times table.

Introducing the Ratio Symbol

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4a. This machine turns sentences into ratios. Could this ratio be correct?



Convince me.



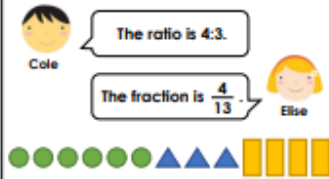
4b. This machine turns sentences into ratios. Could this ratio be correct?



Convince me.



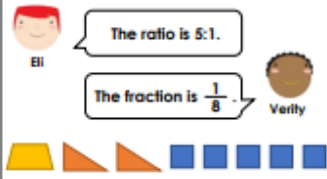
5a. Each child's statement is correct.



Explain how this is possible.



5b. Each child's statement is correct.



Explain how this is possible.



6a. In a bag of 10 sweets, $\frac{3}{5}$ are red. The rest are green or blue.

Write down 3 solutions for the possible ratio of red to blue to green sweets.

Draw counters to support your answers.



6b. In a class of 30 children, $\frac{2}{3}$ are having sandwiches for lunch. The rest are having cook's choice or jacket potato.

Write down 3 solutions for the possible ratio of jacket potato to sandwiches to cook's choice.

Draw counters to support your answer.

