Arithmetic

1. 42 + 1,000

2. 891 – 200

3. 6 x 10

4. 12 ÷ 2

Practice: Drawing Lines and Shapes Accurately

5. Recap: Explain how to use a ruler accurately to draw a line 2cm in length.

6. Measure the lines.

a. ——————

b. ———————————

7. Use a ruler to draw lines of these lengths.

a. 6cm   b. 10cm 7mm   c. 8cm 5mm

8. Draw a square with sides measuring:

a. 4cm   b. 7cm   c. 1cm 5mm

9. Draw a rectangle with sides measuring:

a. 3cm x 2cm 4mm   b. 3cm 3mm x 7cm

10. 1.5cm is the same as ___cm and ___ mm. Explain your answer.

11. Draw a triangle with at least one side measuring:

a. 6cm   b. 7cm 1mm   c. 10cm 4mm

12. Draw a pentagon with at least one acute angle and a side measuring 5cm.

13. ————————————

Gwen says the line is 5cm long.
Measure the line yourself. If Gwen is wrong, what mistake do you think she has made?

Challenge

14. Always, sometimes, never.

Sides of a pentagon always measure the same.

Prove your answer.

You might want to talk to an adult

Spot the mistake

Answers

Q no.	Question	Answer
1	42 + 1,000	1,042
2	891 – 200	691
3	6 x 10	60
4	12 ÷ 2	6
5	Explain how to use a ruler accurately to draw a line 2cm in length.	Answers will vary but should explain that lines need to be measured from 0cm (not 1cm or the end of the ruler). They may also describe how they hold the ruler to ensure they draw a straight line (for example, pupils may describe putting pressure on the ruler to stop it moving).
6	Measure the lines.	a. 3cm, b. 4cm 5mm
7	Use a ruler to draw lines of these lengths.	Accept answers that show the lines accurately drawn and straight.
8	Draw a square with sides measuring.	Accept answers where all the sides of the shape are the given lengths.
9	Draw a rectangle with sides measuring:	Accept answers where the sides of the rectangles are accurate.
10	1.5cm is the same as ___cm and ___mm. Explain your answer.	1.5cm is the same as 1cm and 5mm. Pupils have not been introduced to this notation so may struggle with this question. They should be encouraged to think about how many mm are in a cm and consider how this may link decimals.
11	Draw a triangle with at least one side measuring:	Accept answers that show triangles with at least one side in the given measure.
12	Draw a pentagon with at least one acute angle and a side measuring 5cm.	Accept answers that show a five sided shape with one side 5cm and at least one acute angle.
13	If Gwen is wrong, what mistake do you think she has made?	Gwen has not accurately measured the line. If pupils measure the line, they will find it is 4cm long. This would indicate Gwen has started measuring from 1cm, not 0cm.
14	Always, sometimes, never. Sides of a pentagon always measure the same. Prove your answer.	This is sometimes true. Regular pentagons have the same length sides and internal angles. Irregular pentagons have sides of different lengths.