

Target 4 Sheet 04B

Question 1

Work out $2\frac{1}{8} \div 6\frac{1}{2}$

simplifying your answer if possible.

Question 2

Find the n th term of this sequence:

7, 8, 9, 10, ...

Question 3

A bag has 3 purple, 3 yellow, and 2 orange beads.

You pick one at random, note the colour and put it back.

You then pick one again.

Find the probability of picking two different coloured beads.

Question 4

Solve $2x + 7 = -10x + 67$

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Question 1

Work out $2\frac{1}{8} \div 6\frac{1}{2}$

simplifying your answer if possible.

$$\begin{aligned}2\frac{1}{8} \div 6\frac{1}{2} &= \frac{17}{8} \div \frac{13}{2} \\ &= \frac{17}{8} \times \frac{2}{13} = \frac{34}{104} = \frac{17}{52}\end{aligned}$$

Question 3

A bag has 3 purple, 3 yellow, and 2 orange beads.

You pick one at random, note the colour and put it back.

You then pick one again.

Find the probability of picking two different coloured beads.

$$\frac{21}{32}$$

Question 2

Find the n th term of this sequence:
7, 8, 9, 10, ...

$$n + 6$$

Question 4

Solve $2x + 7 = -10x + 67$

$$x = 5$$