## QT Quick Test 4C

1. Work out $2 \frac{1}{2} \times 3 \frac{1}{4}$

$$
\frac{5}{2} \times \frac{13}{4}=\frac{65}{8}=8 \frac{1}{8}
$$

2. Adas drives 350 km at an average speed of $75 \mathrm{~km} / \mathrm{h}$. What is the time taken for Aqdas's journey? Give your answer in hours and minutes.

3. Leo bought 4 kg of oranges from the supermarket for $£ 2.40$. What is the cost of 5 kg of oranges?


4. Calculate $79 \%$ of $£ 320$


320

$$
\begin{array}{r}
x 79 \\
2580 \\
22400 \\
\hline 25280
\end{array}
$$

$2 \sqrt{2} \cdot 8$

5. A model of a small block of flats has a vertical height of 15 cm . The scale of the model is $1: 150$. Work out the height of the real block of flats. Give your answer in metres.

6. Describe fully the single transformation that maps triangle $A$ to triangle $B$.

7. Write the ratio $7.5: 2.5$ in the form $n: 1$


3:1
8. A circle has a radius of 17 cm . Work out the area of the circle. Give your answer correct to 1 decimal place.


$$
\begin{aligned}
\text { Area } & =\pi r^{2} \\
& =\pi(\pi)^{n} \\
& =2 s 9 \pi
\end{aligned}
$$


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9. $n$ is an integer such that $-4 \leq n \leq 2$. Write down all the possible values of $n$.

10. Sameer and Harine share some money in the ratio 5:3. Sameer gets $£ 60$ more than Marine. Work out how much money Marine gets.

11. There are 65 counters in a bag. 11 of the counters are yellow, and the rest are green. One of the counters is taken at random. Find the probability that this counter is green.

12. $A B C$ is an isosceles triangle. Calculate the perpendicular height of triangle $A B C$. Give your answer correct to 3 significant figures.

13. The bearing of Leeds from Liverpool is $112^{\circ}$. Find the bearing of Liverpool from Leeds.

14. The frequency table shows the time taken for students to complete their maths homework.
(a) Work out an estimate for the mean time for the students to complete their comework.
(b) Explain why your answer to part (a) is an estimate


$$
=\frac{855}{30}=28.5 \sin .
$$

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