Booster week 7 revision

Q1.

$$\frac{1}{4} \times \frac{3}{7} =$$

3/28

Q1. Complete this table by rounding the numbers to the **nearest hundred**.

	Rounded to the **nearest hundred**
20,906	20,900
2,090.6	2,100
209.06	200

Q2.

$$\begin{array}{r} 6574 \\ \times \quad 31 \\ \hline 203,794 \end{array}$$

Show your method

203,794

Q3. $1.52 \times 6 =$

$$\begin{array}{r} 1.52 \\ \times \quad 6 \\ \hline 9.12 \end{array}$$

9.12

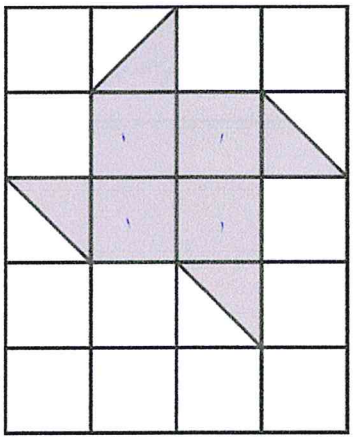
Q4. $36 \times 0 =$

0

Q5. $4^3 =$

64

Q2. Here is a grid of 20 squares.



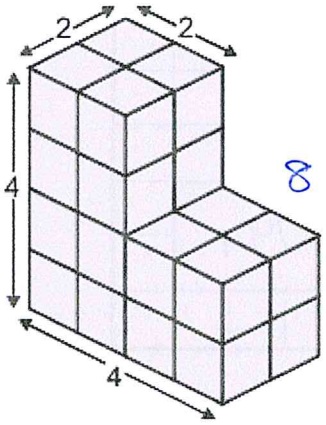
$\frac{5}{20} = \frac{25}{100}$

What percentage of the grid is shaded?

25 %

(b) This shape is made with two cuboids.

Write **how many small cubes** there are in this shape.



8

Number of cubes: 24

Q17.

$$\frac{3}{10} - \frac{1}{20} =$$

$\frac{6}{20}$ $\frac{5}{20}$

$\frac{1}{4}$

Q14.

$29\overline{)725}$

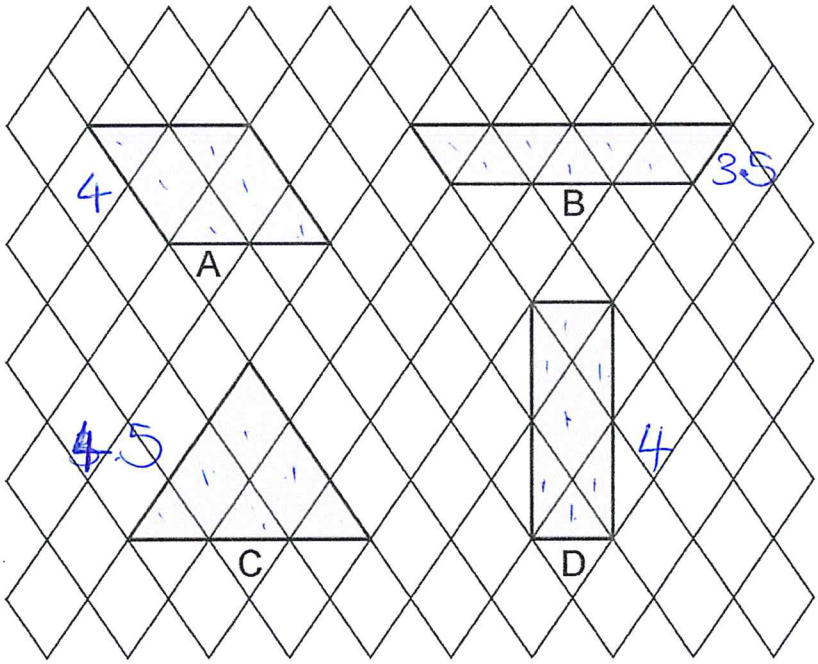
Show your method

0 2 5
29 7 2 5
5 8
1 4 5

1. 29
2. 58
3. 87
4. 116
5. 145

25

Q11. Here are some shapes drawn on a grid.



Write the letters of the **two** shapes that are equal in area.

A and D

Q18. 4,800 ÷ 40 =

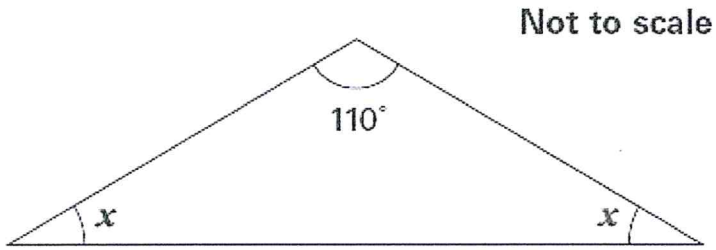
120

Q19. 507 − 10 =

497

Q17.

Here is an isosceles triangle.



Calculate the size of angle x.

Do **not** use a protractor (angle measurer).

35 °

Q20. 50 × 80 =

4,000

Q21. 0.06 × 7 =

0.42

Q22. 3 + 4 × 7 =

31

Q6. Calculate 55% of 640

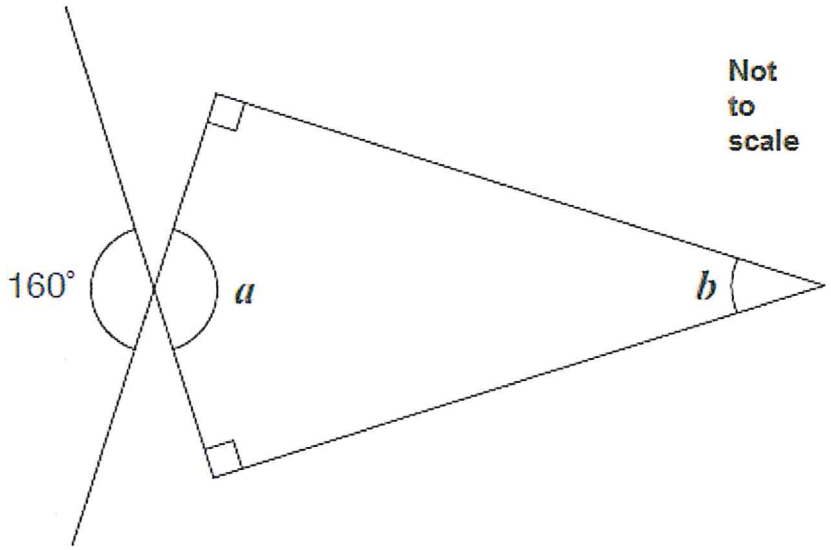
10% = 64
5% = 32
50% = 320
32
352

352

Q23. 6.7 ÷ 100 =

0.067

Q22. Calculate the size of angles a and b in this diagram.



$a =$ 160 °

1 mark

$b =$ 20 °

Q24. 0.9 ÷ 10 =

0.09

Q26. 23.8 ÷ 1,000 =

0.0238

Q25. Complete this table to show the numbers rounded to the **nearest 100**.

One has been done for you.

	rounded to the nearest hundred
316	300
3,162	3200
31,628	31600
316,281	316300

Q28. $630 \div 9 =$

70

Q30.

$0.6 = \frac{12}{20}$ $\quad \frac{6}{10} = \frac{12}{20}$

Q32.

$\frac{4}{7} \div 2 =$ $\quad \frac{4}{14} = \frac{2}{7}$

$\frac{2}{7}$

Q35.

$\frac{7}{9}$ of $45 =$ $\quad \frac{1}{9}$ of $45 = 5$

35

Q38.

$17 \times 1\frac{1}{2} =$ $\quad \frac{17}{1} \times \frac{3}{2} = \frac{41}{2} = 20\frac{1}{2}$

$20\frac{1}{2}$

Q26. Runa and Jon each start with the same number.

Runa rounds the number to the nearest hundred.

Jon rounds the number to the nearest ten.

Runa's answer is double Jon's answer.

Explain how this can be.

If they began with 51:
- 51 to the nearest 100 is 100
- 51 to the nearest 10 is 50
- 100 is double 50.

Q33.

$\frac{5}{6} \div 2 =$

$\frac{5}{12}$

Q19.

Jamie draws a triangle.

He says,

'Two of the three angles in my triangle are obtuse'.

Explain why Jamie **cannot** be correct.

- obtuse angles are $> 90°$
- angles in a triangle sum to $180°$
- 2 obtuse angles would be $> 180°$

therefore he cannot be correct.