Year 6 Maths Activity Mat

Section 1

Round the following numbers to the nearest 1 million:

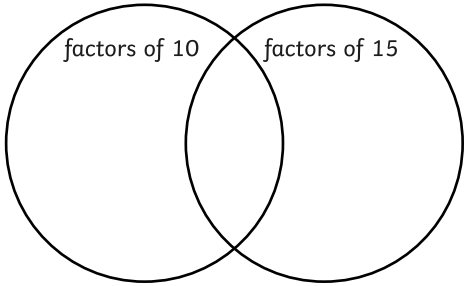
4 561 234 → ☐

1 500 000 → ☐

4 499 000 → ☐

Section 2

Use this Venn diagram to write the common factors of 10 and 15.



Section 6

Calculate the area and perimeter of the following rectangle.

perimeter = ☐

area = ☐

Section 3

Half of a number is 28. What is the number?

☐

Section 4

Calculate:

$\frac{1}{2} \times \frac{1}{2} =$ ☐

$\frac{1}{2} \times \frac{1}{3} =$ ☐

$\frac{1}{4} \times \frac{1}{3} =$ ☐

$\frac{1}{3} \times \frac{1}{3} =$ ☐

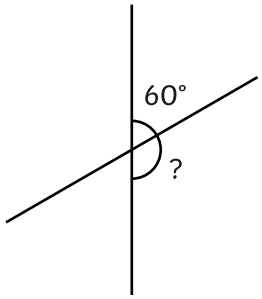
Section 5

Calculate, writing the answer as a decimal:

$4\overline{)2\ 7\ 8}$

Section 7

Calculate the unknown angle.



☐

Section 8

Find 3 pairs of numbers that satisfy these equations:

a - b = 3 ☐

c + d = 8 ☐

Year 6 Maths Activity Mat: 3

Answers

Section 1

Round the following numbers to the nearest 1 million:

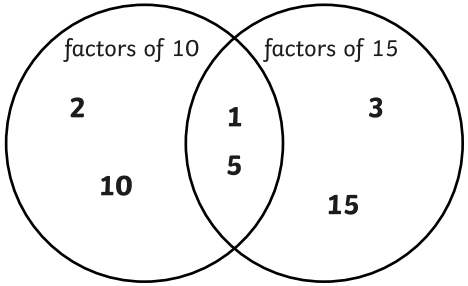
4 561 234 → **5 000 000**

1 500 000 → **2 000 000**

4 499 000 → **4 000 000**

Section 2

Use this Venn diagram to write the common factors of 10 and 15.



Section 3

Half of a number is 28. What is the number?

56

Section 4

Calculate:

$\frac{1}{2} \times \frac{1}{2} =$ **$\frac{1}{4}$**

$\frac{1}{2} \times \frac{1}{3} =$ **$\frac{1}{6}$**

$\frac{1}{4} \times \frac{1}{3} =$ **$\frac{1}{12}$**

$\frac{1}{3} \times \frac{1}{3} =$ **$\frac{1}{9}$**

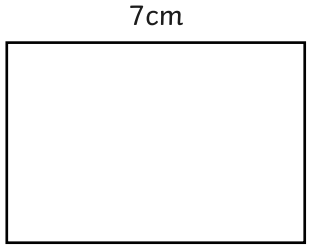
Section 5

Calculate, writing the answer as a decimal:

$$4 \overline{)\,2\;7\;8} = 6\;9.5$$

Section 6

Calculate the area and perimeter of the following rectangle.

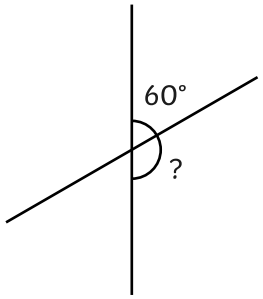


perimeter = **22cm**

area = **28cm²**

Section 7

Calculate the unknown angle.



120°

Section 8

Find 3 pairs of numbers that satisfy these equations:

a - b = 3 → **a = 4, b = 1; a = 5, b = 2; a = 6, b = 3**

c + d = 8 → **c = 7, d = 1; c = 6, d = 2; c = 5, d = 3**

Year 6 Maths Activity Mat

Section 1

Round the following numbers to the nearest ten million:

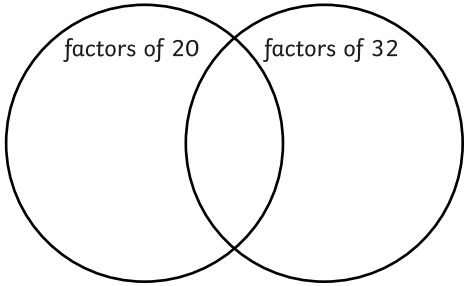
14 892 391 → ☐

15 000 000 → ☐

20 500 000 → ☐

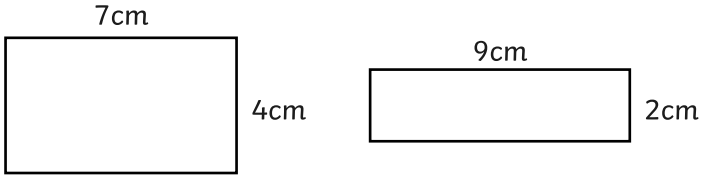
Section 2

Use this Venn diagram to write the common factors of 20 and 32.



Section 6

What do you notice about the area and perimeter of these two rectangles?



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Section 3

What number, when doubled, is one fifth of 100?

☐

Section 4

Calculate:

$\frac{1}{4} \times \frac{1}{6} =$ ☐

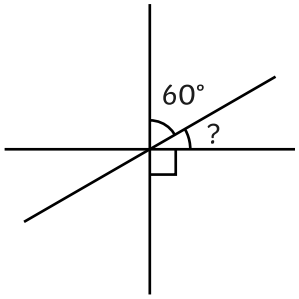
$\frac{1}{3} \times \frac{2}{3} =$ ☐

$\frac{3}{4} \times \frac{1}{2} =$ ☐

$\frac{2}{4} \times \frac{1}{3} =$ ☐

Section 7

Calculate the unknown angle.



☐

Section 8

Find 3 pairs of numbers that satisfy these equations:

2a - b = 8 ☐

2c + d = 8 ☐

Section 5

Calculate, writing the answer as a decimal:

5 ⟌ 8 3 1

Year 6 Maths Activity Mat: 3

Answers

Section 1

Round the following numbers to the nearest ten million:

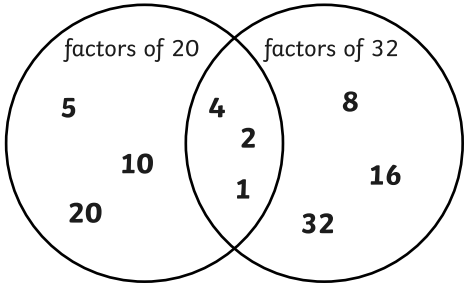
14 892 391 → **10 000 000**

15 000 000 → **20 000 000**

20 500 000 → **20 000 000**

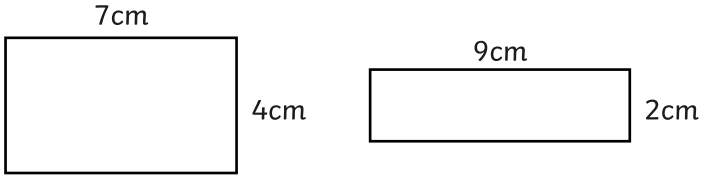
Section 2

Use this Venn diagram to write the common factors of 20 and 32.



Section 6

What do you notice about the area and perimeter of these two rectangles?



Same perimeter 22cm, different area 28 cm² and 18 cm²

Section 3

What number, when doubled, is one fifth of 100?

10

Section 4

Calculate:

$\frac{1}{4} \times \frac{1}{6} =$ **$\frac{1}{24}$**

$\frac{1}{3} \times \frac{2}{3} =$ **$\frac{2}{9}$**

$\frac{3}{4} \times \frac{1}{2} =$ **$\frac{3}{8}$**

$\frac{2}{4} \times \frac{1}{3} =$ **$\frac{3}{12}$ or $\frac{1}{4}$**

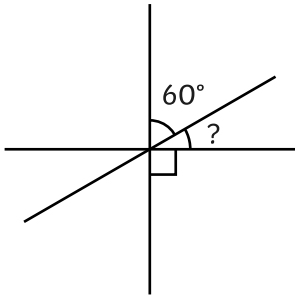
Section 5

Calculate, writing the answer as a decimal:

$$5 \overline{)\,8\;3\;1} = 1\;6\;6.2$$

Section 7

Calculate the unknown angle.



30°

Section 8

Find 3 pairs of numbers that satisfy these equations:

$2a - b = 8$ → **a = 5, b = 2; a = 6, b = 4; a = 7, b = 6**

$2c + d = 8$ → **c = 1, d = 6; c = 2, d = 4; c = 3, d = 2**

Year 6 Maths Activity Mat

Section 1

Round the following numbers to the nearest five million:

10 671 907 → ☐

12 500 000 → ☐

57 750 000 → ☐

Section 2

Draw a Venn diagram to show the common factors of 12, 20 and 35.

Section 3

What number, when halved, is a third of the total of 42 and 48?

☐

Section 4

Which answer is larger?

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} =$ ☐

$\frac{2}{3} \times \frac{3}{4} \times \frac{1}{5} =$ ☐

☐

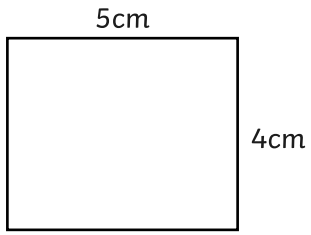
Section 5

Calculate, writing the answer as a decimal:

$6 \overline{)\,8\ 3\ 1}$

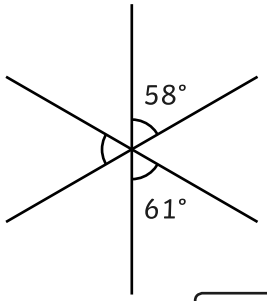
Section 6

Draw (not to scale) a rectangle with the same perimeter as this rectangle, but with a different area. Label the sides.



Section 7

Calculate the unknown angle.



☐

Section 8

Find 3 pairs of numbers that satisfy these equations:

3a - 2b = 4 ☐

3c + 2d = 14 ☐

Year 6 Maths Activity Mat: 3

Answers

Section 1

Round the following numbers to the nearest five million:

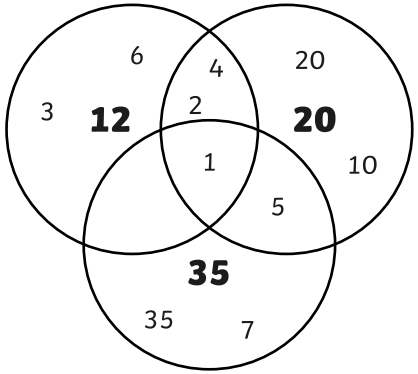
10 671 907 → **10 000 000**

12 500 000 → **15 000 000**

57 750 000 → **60 000 000**

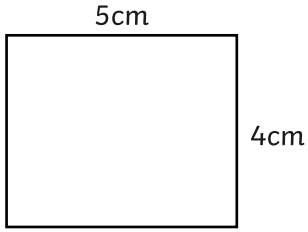
Section 2

Draw a Venn diagram to show the common factors of 12, 20 and 35.



Section 6

Draw (not to scale) a rectangle with the same perimeter as this rectangle, but with a different area. Label the sides.



Various answers e.g.

Section 3

What number, when halved, is a third of the total of 42 and 48?

60

Section 4

Which answer is larger?

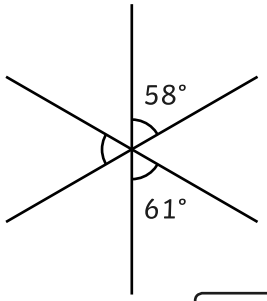
$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} =$ **$\frac{1}{8}$**

$\frac{2}{3} \times \frac{3}{4} \times \frac{1}{5} =$ **$\frac{1}{10}$**

$\frac{1}{8} > \frac{1}{10}$

Section 7

Calculate the unknown angle.



61°

Section 8

Find 3 pairs of numbers that satisfy these equations:

3a - 2b = 4

a = 2, b = 1; a = 4, b = 4; a = 6, b = 7

3c + 2d = 14

c = 2, d = 4; c = 4, d = 1; c = 6, d = -2

Section 5

Calculate, writing the answer as a decimal:

$$\begin{array}{r} 1\ 3\ 8.5 \\ 6\overline{)\,8\ 3\ 1} \end{array}$$