

Year 6 Spring 2 Maths Activity Mat

5

1 Use these clues to find the number:

- It is between 2000 and 2050
- It is a multiple of four.
- The sum of the digits is nine.

2 Calculate:

$$\begin{array}{r} 3094 \\ \times 17 \\ \hline \end{array}$$

3 Write 1.75 as an improper fraction?

4 A shop sells three sizes of Easter eggs. Altogether it sells 2481 eggs, of which 718 are large and 653 are medium size. How many small eggs did the shops sell?

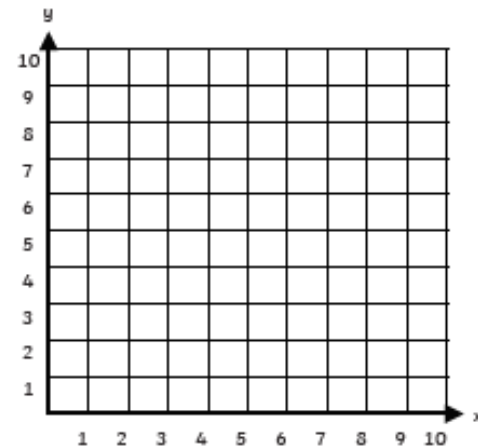
5 Complete:

$$\frac{1}{2} \div 3 =$$

$$\frac{1}{3} \div 4 =$$

6 A four-litre carton of water is shared equally into eight bottles. How much water will be in each bottle?

7 Draw a kite on this coordinates grid using the coordinates: (5,8) (9,6) (5,1) (1,6).



8 a and b are whole numbers between 7 and 12. Write all the combinations showing the possible values of a and b where:

$$a + b = 19$$

Year 6 Spring 2 Maths Activity Mat

5

Use these clues to find the number:

1

- The number has six digits.
 - The number is less than 300 000.
 - Nine is a factor of the number.
 - Three digits are even and three are odd.
 - The second digit is the first digit cubed.
 - The tens digit has no value.
 - The thousands digit is seven times the hundreds digit.
-

Calculate:

2

$$\begin{array}{r} 6719 \\ \times 34 \\ \hline \end{array}$$

Write 1.625 as an improper fraction?

3

A shop sells four sizes of Easter eggs. Altogether it sells 5982 eggs, of which 1697 are small and 1049 are medium size. The remaining eggs are large and extra large. 25% of the remaining eggs sold are extra large. How many extra large eggs are sold?

4

Complete:

5

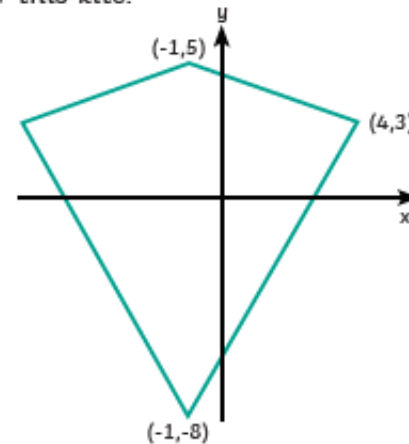
$$\frac{3}{4} \div 4 = \qquad \frac{2}{5} \div 4 =$$

Alice makes a drink for a party of 16 children. She uses four litres of lemonade and three litres of juice. How much drink would each child have if the drink was shared equally?

6

Write the missing coordinates for this kite.

7



a and b are whole numbers between 5 and 9. Write all the combinations showing the possible values of a and b where:

8

$$2a - b = 8$$

Year 6 Spring 2 Maths Activity Mat

1

1 Order the following numbers from smallest to largest, writing the answers in numerals:

Seven hundred and sixty-six thousand, seven hundred and sixty-six; seven hundred and sixty-seven thousand, seven hundred and seventy-seven; seven hundred and sixty-seven thousand, six hundred and seventy-six; seven hundred and sixty-six thousand, six hundred and seventy-seven.

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2 Here are some estimated answers to some calculations. Tick the reasonable estimates.

- $508 \times 12 \approx 6000$
 $9\,231\,409 - 5\,791\,231 \approx 3\,500\,000$
 $76\,012 \div 17 \approx 3000$

Explain your answers.

3 A school has 21 classes of 28 children. The children are arranged into groups of eight. How many groups of eight children will there be?

4 Simplify the following fractions.

$$\frac{15}{27} \qquad \frac{45}{75}$$

5 Calculate:

- $0.7 \times 110 -$
 $0.4 \times 1001 -$
 $0.9 \times 1010 -$

6 Convert the following:

8ml - _____ l
_____ cl - 0.093l

7 I have eight faces that are all triangles. What am I? Draw me.

8 Some children research children's favourite sports. They show the results in a pie chart.

- football
- swimming
- cricket
- golf



40 children chose cricket. Estimate how many children chose each of the other sports?

Football _____
Golf _____
Swimming _____

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5

Use these clues to find the number:

- It is between 2000 and 2050
- It is a multiple of four.
- The sum of the digits is nine.

2016

1

A shop sells three sizes of Easter eggs. Altogether it sells 2481 eggs, of which 718 are large and 653 are medium size. How many small eggs did the shops sell?

1110

4

Calculate:

$$\begin{array}{r} 62 \\ 3094 \\ \times 17 \\ \hline 21658 \\ 30940 \\ \hline 52598 \\ 1 \end{array}$$

2

Complete:

$$\frac{1}{2} \div 3 = \frac{1}{6}$$

$$\frac{1}{3} \div 4 = \frac{1}{12}$$

5

Write 1.75 as an improper fraction?

$$\frac{7}{4}$$

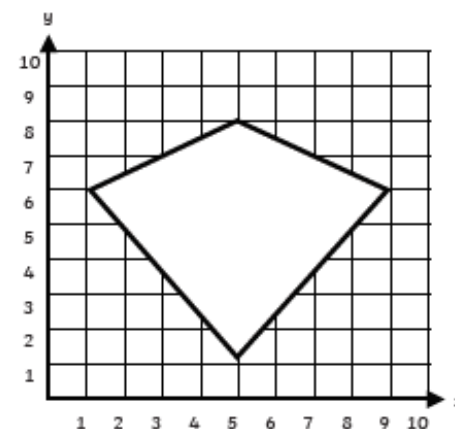
3

A four-litre carton of water is shared equally into eight bottles. How much water will be in each bottle?

0.5l or 500ml

6

Draw a kite on this coordinates grid using the coordinates: (5,8) (9,6) (5,1) (1,6).



7

a and b are whole numbers between 7 and 12. Write all the combinations showing the possible values of a and b where:

$$a + b = 19$$

a = 8, b = 11; a = 9, b = 10; a = 10, b = 9; a = 11, b = 8

8

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5

Use these clues to find the number:

1

- The number has six digits.
- The number is less than 300 000.
- Nine is a factor of the number.
- Three digits are even and three are odd.
- The second digit is the first digit cubed.
- The tens digit has no value.
- The thousands digit is seven times the hundreds digit.

287 109

Write 1.625 as an improper fraction?

3

$$\frac{13}{8}$$

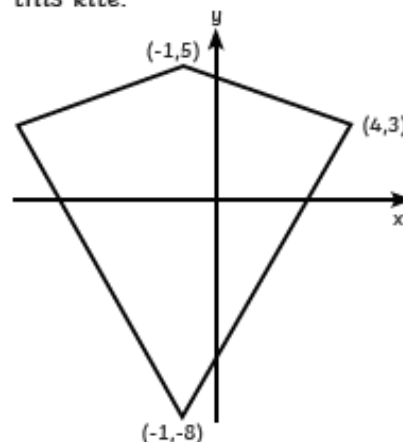
A shop sells four sizes of Easter eggs. Altogether it sells 5982 eggs, of which 1697 are small and 1049 are medium size. The remaining eggs are large and extra large. 25% of the remaining eggs sold are extra large. How many extra large eggs are sold?

4

809

Write the missing coordinates for this kite.

7



(-6,3)

Calculate:

2

$$\begin{array}{r} 2 \quad 3 \\ 6 \quad 7 \quad 1 \quad 9 \\ \times \quad 3 \quad 4 \\ \hline 2 \quad 6 \quad 8 \quad 7 \quad 6 \\ 2 \quad 0 \quad 1 \quad 5 \quad 7 \quad 0 \\ \hline 2 \quad 3 \quad 8 \quad 4 \quad 4 \quad 6 \\ 1 \quad 1 \end{array}$$

Complete:

5

$$\frac{3}{4} \div 4 = \frac{3}{16} \quad \frac{2}{5} \div 4 = \frac{3}{20}$$

Alice makes a drink for a party of 16 children. She uses four litres of lemonade and three litres of juice. How much drink would each child have if the drink was shared equally?

6

437.5ml or 0.4375l

a and b are whole numbers between 5 and 9. Write all the combinations showing the possible values of a and b where:

8

$$2a - b = 8$$

$$\mathbf{a = 8, b = 8; a = 7, b = 6;}$$

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5

Use these clues to find the number:

- This is a seven-digit number.
- The digits all add up to 37.
- There are only two different digits and no consecutive digits are the same.
- There are odd and even digits.

4 747 474

Find the missing numbers in this calculation.

$$\begin{array}{r}
 114 \\
 9216 \\
 \times 57 \\
 \hline
 64512 \\
 460800 \\
 \hline
 525312 \\
 1
 \end{array}$$

Write 3.875 as an improper fraction?

$$\frac{31}{8}$$

A shop sells four sizes of Easter eggs. Altogether it sells 10 351 eggs. 2617 small eggs are sold. Twice as many medium eggs as small eggs are sold. Of the remaining eggs, 75% are large and the rest are extra large. How many medium, large and extra large eggs are sold?

5234 medium, 1875 large, 625 extra large

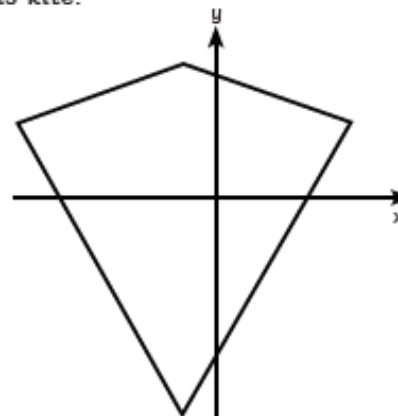
Complete:

$$\frac{3}{4} \div 2 = \frac{3}{8} \qquad \frac{2}{5} \div 4 = \frac{1}{10}$$

Alex makes a drink for a party of 24 children. He uses three types of juice in the ratio 2:3:1. He uses 1.75l of the juice of which he uses the least. How much drink would each child have if the drink was shared equally?

437.5ml or 0.4375l

Write possible coordinates for this kite.



Various answers

a and b are whole numbers between 4 and 10. Write all the combinations showing the possible values of a and b where:

$$3a - b = 9$$

a = 5, b = 6; a = 6, b = 9;