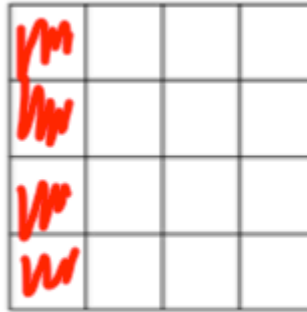


Shade 25% of this grid.

4 squares



Match the event to the correct probability word.

| | |
|---|------------|
| | Certain |
| Throwing the number 8 on an ordinary dice | Likely |
| Snow falling in London on 1 st May | Evens |
| A fair coin landing on 'heads' | Unlikely |
| | Impossible |

(Handwritten red lines connect 'Throwing the number 8...' to 'Unlikely', 'Snow falling...' to 'Impossible', and 'A fair coin...' to 'Evens')

81 x 6

$$\begin{array}{r} 81 \\ \times 6 \\ \hline 486 \end{array}$$

1725 ÷ 5

$$\begin{array}{r} 0345 \\ 5 \overline{) 1725} \\ \underline{5} \\ 12 \\ \underline{10} \\ 22 \\ \underline{20} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

9823 - 834

$$\begin{array}{r} 9823 \\ - 834 \\ \hline \end{array}$$

| | Square number | Multiple of 5 |
|---------------|---------------|---------------|
| Odd number | 49 | 125 |
| Factor of 20 | 4 | 10 |
| Multiple of 6 | 36 | 30 |

Put these numbers into the correct box.

4 10 30 36 49 125

(Handwritten red lines connect 4 to 'Factor of 20', 10 to 'Multiple of 5', 30 to 'Multiple of 5', 36 to 'Multiple of 6', 49 to 'Square number', and 125 to 'Multiple of 5')

Write 0.38 correct to 1 significant figure

0.4

Solve the equation $5x - 7 = 8$

$$\begin{aligned} 5x &= 15 \\ x &= 3 \end{aligned}$$

Solve the equation $9x + 3 = 7x + 10$

$$\begin{aligned} 2x + 3 &= 10 \\ 2x &= 7 \\ x &= 3.5 \end{aligned}$$

$$3\frac{1}{2} \div \frac{4}{5} = 7\frac{1}{2} \times \frac{5}{4} = 9\frac{5}{8} = 9\frac{6}{8} = 9\frac{3}{4}$$

| Time, t (minutes) | Number of pupils |
|---------------------|------------------|
| $2 < t \leq 4$ | 3 |
| $4 < t \leq 6$ | 6 |
| $6 < t \leq 8$ | 7 |
| $8 < t \leq 10$ | 8 |
| $10 < t \leq 12$ | 5 |
| $12 < t \leq 14$ | 1 |

$f \times t$
9
30
40
72
55
13

$$\frac{228}{30} = 7.6$$

Write down the modal interval

$$8 < t \leq 10$$

Calculate an estimate for the mean

$$7.6$$

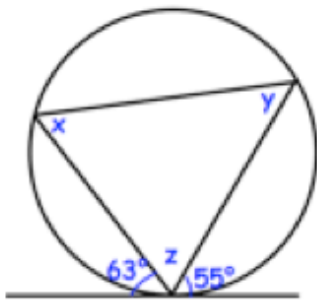
$$4\frac{1}{4} - 2\frac{5}{7}$$

$$\frac{119}{28}$$

$$- \frac{76}{28} = \frac{43}{28}$$

$$\frac{17}{4} - \frac{19}{7} =$$

$$1\frac{15}{28}$$

Find x , y and z .

$$x = 55^\circ$$

$$y = 63^\circ$$

$$z = 62$$

Make y the subject of:

$$ay + c = 5c - my$$

$$ay + my = 4c$$

$$y(a+m) = 4c$$

$$y = \frac{4c}{a+m}$$

$$\frac{x}{x+1} - \frac{2}{x-1} = 1$$

$$\frac{x(x-1) - 2(x+1)}{(x+1)(x-1)} = 1$$

$$\frac{x^2 - x - 2x - 2}{(x+1)(x-1)} = 1$$

$$\frac{x^2 - 3x - 2}{(x+1)(x-1)} = 1$$

$$x^2 - 3x - 2 = (x+1)(x-1)$$

$$x^2 - 3x - 2 = x^2 - 1$$

$$-3x = 1$$

$$x = -\frac{1}{3}$$