

3. Evaluate, $\sqrt{100} - \sqrt{64}$

- a. 10
- b. 2^2
- c. 2
- d. 36

$\sqrt{\quad}$ = Square root
 (Opposite of squaring a number)

$$\left\{ \begin{array}{l} \sqrt{100} = 10 \\ \sqrt{64} = 8 \end{array} \right. \rightarrow 10 - 8 = 2$$

4. The actual length of stream is 250 m. On a map, the same stream has been drawn on a scale of 1 : 10 000. What is the length of the stream on the map?

- a. 2500 m
- b. 2.5 m
- c. 2.5 cm
- d. 25 cm

1 : 10,000 \rightarrow 1cm = 10,000cm

$$\frac{\text{cm}}{10,000} \xrightarrow{\div 100} \frac{\text{m}}{100\text{m}} \left\{ \begin{array}{l} 1\text{cm} = 100\text{m} \\ \times 2.5 \\ \rightarrow 2.5\text{cm} = 250\text{m} \end{array} \right. \times 2.5$$

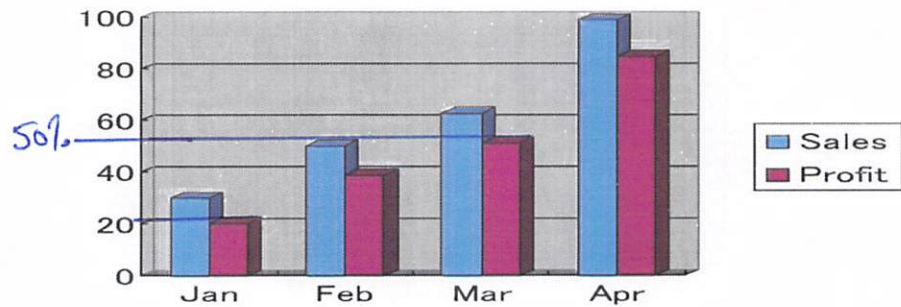
5. Underline the answer which represents the angles in a quadrilateral.

- a. $90^\circ, 110^\circ, 100^\circ, 70^\circ$
- b. $65^\circ + 100^\circ + 115^\circ + 80^\circ = 360^\circ$
- c. $65^\circ, 90^\circ, 105^\circ, 85^\circ$
- d. $110^\circ, 110^\circ, 80^\circ, 70^\circ$

\downarrow
 Polygon that has 4 sides & 4 vertices.
 Quadrilateral = 360°



7.



The bar graph shows the percentages of the sales and the profit of a company. According to the graph, how much more profit was made in March than in January?

- a. 10%
- b. 25%
- c. 30%
- d. 50%

$$\begin{array}{r} \text{March} = 50\% \\ \text{Jan} = 20\% \\ \hline \underline{\underline{30\%}} \end{array}$$

8. If the general term of a certain number pattern is $2n - 1$, what is the 72nd term of this number pattern?

- a. 143
- b. 144
- c. 145
- d. 142

$$2n - 1 \rightarrow 2n = 2 \times n$$

If $n = 72$ then

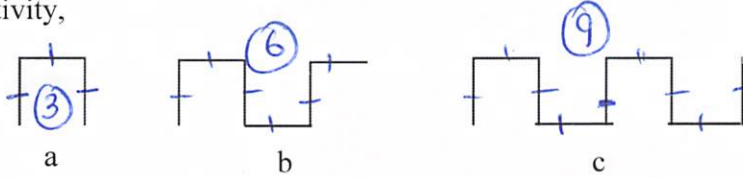
$$2(72) - 1$$

$$144 - 1 = \underline{\underline{143}}$$

$$\begin{array}{r} 72 \\ \times 2 \\ \hline \underline{\underline{144}} \end{array}$$



9. The following figure shows how some sticks were arranged for an assessment activity,



According to the above pattern, select the next shape of this pattern

- a. (14)
- b. (11)
- c. (16)
- d. (12)

10. A lorry had to make 7 trips in order to transport sand with a of mass 66.5 t. If the lorry carried an equal amount of sand on each trip, what is the mass of the sand it carried on one trip?

- a. 95 t
b. 0.95 t
c. 9.5 t
d. 950 t

$$\begin{array}{r} 9.5 \\ 7 \overline{) 66.35} \end{array}$$

Need more practice? Why not try our FREE sample Online papers.

<https://smart-stepz.co.uk/online-learning-for-11-plus/#GetinTouch>

