

- 1 (a) Write down ten thousand and seventy three in figures.

Answer(a) 10073 [1]

- (b) Work out $13 + 5 \times 4 - 2$.

Write down all the steps of your working.

$$\begin{aligned} 13 + 5 \times 4 - 2 \\ = 13 + 20 - 2 \\ = 33 - 2 \\ = 31 \end{aligned}$$

Answer(b) 31 [1]

- 2 Write down the next term in each sequence.

(a) 1, $\xrightarrow{\times 2}$ 2, $\xrightarrow{\times 2}$ 4, $\xrightarrow{\times 2}$ 8, $\xrightarrow{\times 2}$ 16, $\xrightarrow{\times 2}$ 32 [1]

(b) 23, $\xrightarrow{-4}$ 19, $\xrightarrow{-4}$ 15, $\xrightarrow{-4}$ 11, $\xrightarrow{-4}$ 7, $\xrightarrow{-4}$ 3 [1]

- 3 Write down the time and date which is 90 hours after 20 30 on May 31st.

1 day = 24 h 90 h = 3 days 18 h
2 days = 48 h
3 days = 72 h

20.30	38.30	Answer Time	<u>14.30</u>
18.00 +	24.00 -	Date	<u>June 4th</u>
38.30	14.30		

(May 31st) (June 1st) + 3 days = June 4th [2]

- 4 Factorise completely.

$$\begin{aligned} 2xy - 4yz \\ = 2y(x - 2z) \end{aligned}$$

Answer $2y(x - 2z)$ [2]

- 5 Insert $<$ or $>$ or $=$ in the spaces provided to make correct statements.

(a) $\frac{3}{11}$ $<$ 0.273 [1]

(b) 1.1 $<$ 111% [1]

- 6 Make x the subject of the formula.

$$y = \frac{x}{3} + 5$$

$$\begin{aligned} y &= \frac{x}{3} + 5 \\ y - 5 &= \frac{x}{3} \\ 3(y - 5) &= x \\ x &= 3(y - 5) \end{aligned}$$

Answer $x =$ $3(y - 5)$ [2]