## Arithmetic

**1.** 2,000 + 698

**2.** 5,382 – 40

**3.** 6 x 11

**4.** 21 ÷ 3

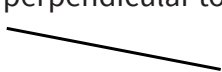## Practice: Parallel and Perpendicular Lines

**5.** Recap: Define parallel and perpendicular lines.

**6.** Draw a set of parallel lines and a set of perpendicular lines. Label them.

**7.** Draw a line parallel to a. and draw a line that is perpendicular to b.

a.

b.

**8.** The hands on the clock are

parallel

perpendicular

**9.** Circle the letters with parallel lines.

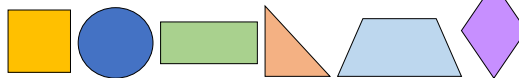F      H      Z      W      D      E

**10.** Is it possible to draw a polygon without parallel or perpendicular lines? Prove it.

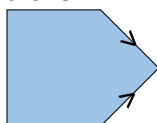**11.** Circle the letters with perpendicular lines.

Z      Y      L      F      T      U

**12.** Circle the shape if it has parallel lines and tick if it has perpendicular lines.

**13.** Addison says he has labelled the parallel lines with arrows.
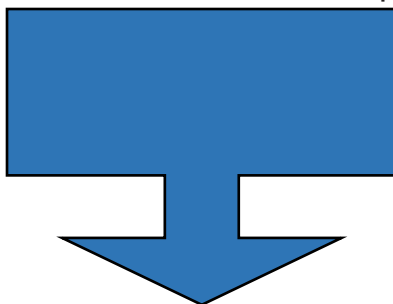
Is Addison right? Explain.

**14.** Write as many statements about the lines in the shape as possible.

Horizontal/ vertical

Parallel/ perpendicular

**Challenge**

**You might want to talk to an adult**

**Spot the mistake**

# Answers

| Q no. | Question | Answer |
|---|---|---|
| 1 | 2,000 + 698 | 2,698 |
| 2 | 5,382 – 40 | 5,342 |
| 3 | 6 x 11 | 66 |
| 4 | 21 ÷ 3 | 7 |
| 5 | Define parallel and perpendicular lines. | Parallel lines always stay the same distance apart and will never meet. Perpendicular lines are a pair of lines that meet at a right angle. |
| 6 | Draw a set of parallel lines and a set of perpendicular lines. Label them. | Accurately drawn parallel and perpendicular lines. |
| 7 | Draw a line parallel to a and draw a line that is perpendicular to b. | Accurate lines draw. |
| 8 | The hands on the clock are parallel, perpendicular | Perpendicular |
| 9 | Circle the letters with parallel lines. | F, H, Z, E |
| 10 | Is it possible to draw a polygon without parallel or perpendicular lines? Prove it. | Polygons are shapes with three or more straight lines that join. It is possible to draw a polygon without parallel and perpendicular lines regular pentagons, for example, do not have parallel or perpendicular lines. |
| 11 | Circle the letters with perpendicular lines. | L, F, T |
| 12 | Circle the shape if it has parallel lines and tick if it has perpendicular lines. | Circled: square, trapezium, rectangle, rhombus<br>Ticked: square, triangle, rectangle |
| 13 | Is Addison right? Explain. | Addison has identified a set of perpendicular lines as they meet at a right angle. This highlights a lack of understanding of parallel and perpendicular lines. |
| 14 | Write as many statements about the lines in the shape as possible.<br><br>Horizontal/ vertical<br><br>Parallel/ perpendicular | Accept any sentences that are accurate.<br><br>Example answers:<br><br>The shape has 5 horizontal lines.<br><br>The shape has 4 vertical lines. |