

Lesson 21 – Reflection in a Line

Starter

Find

- 1) 30% of 50
- 2) 35% of 80
- 3) 20% of 8
- 4) 38% of 120
- 5) 98% of 152

Starter Answers

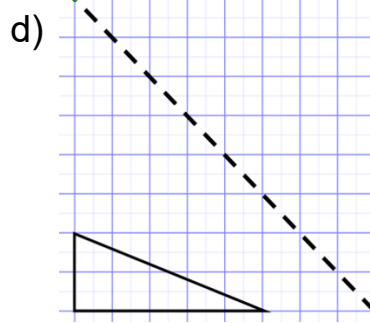
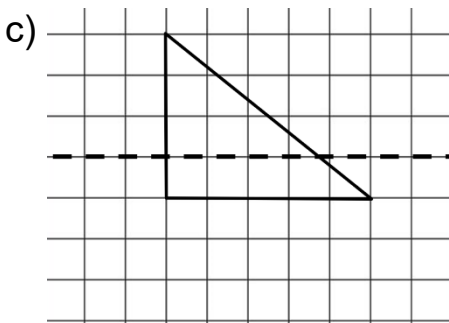
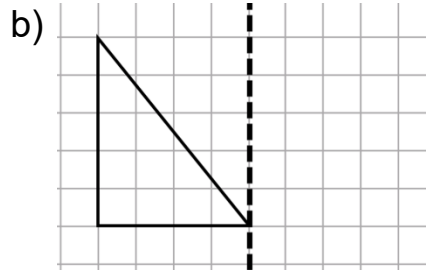
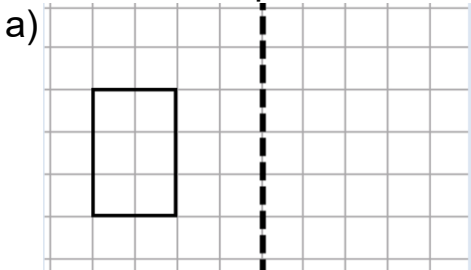
- 1) 15 2) 28 3) 1.6 4) 45.6 5) 148.96

When we **reflect** a shape, we create a **mirror image**. The line that the shape is reflected across is called the **mirror line**.

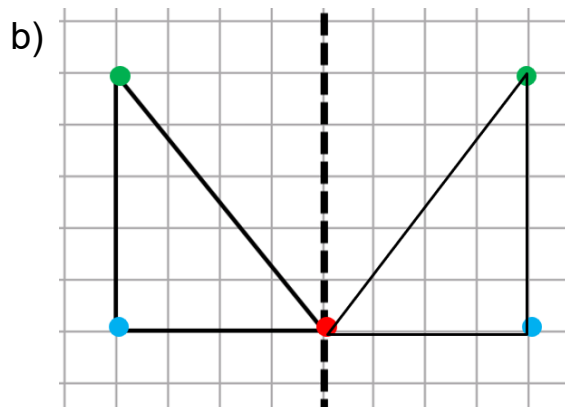
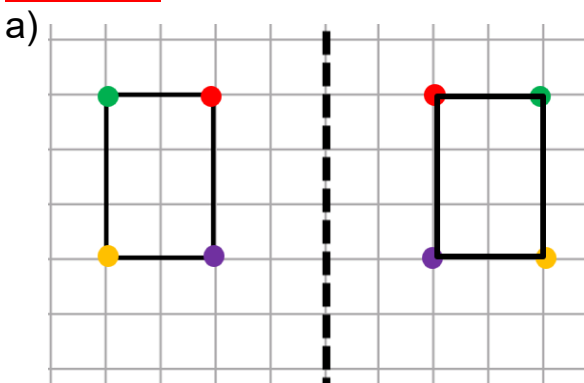
The best way to reflect a shape is to reflect each corner of the shape separately. We can count the number of squares to the mirror line and repeat this at the other side of the line.

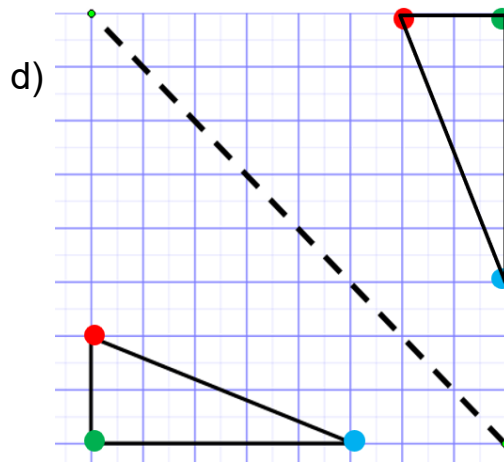
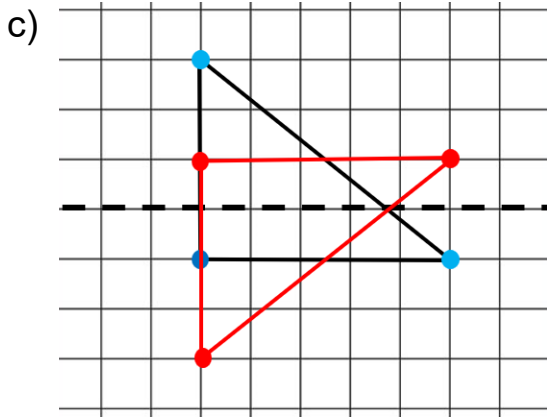
Example 1

Reflect the shapes across the mirror line.



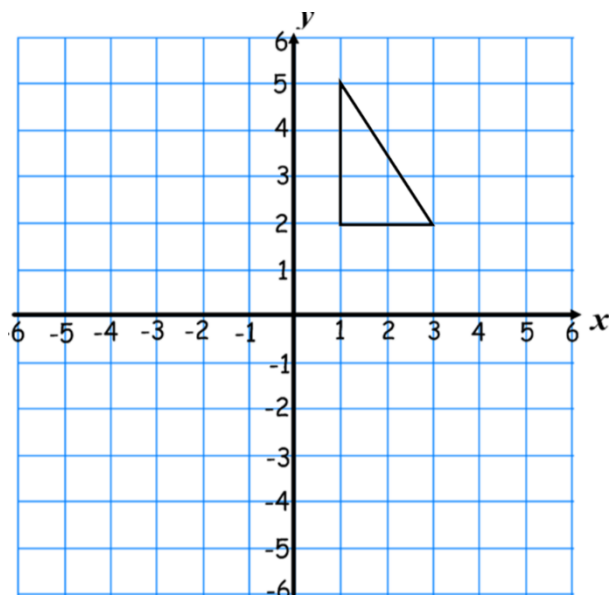
Answers



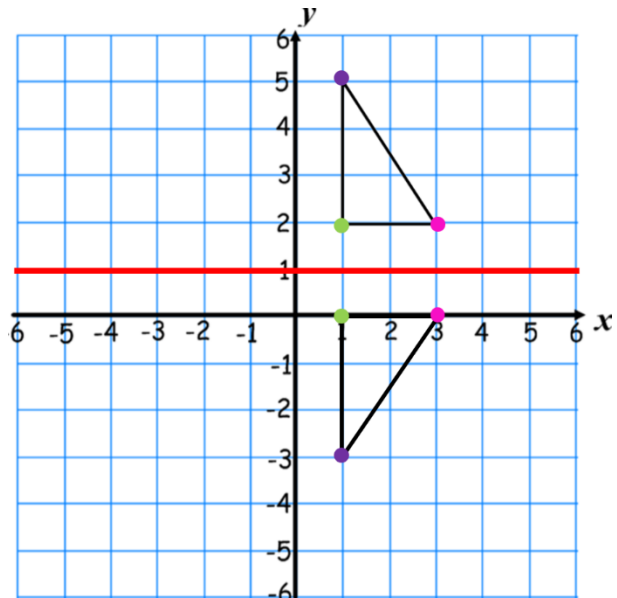


Example 2

Reflect the shape in the line $y = 1$.

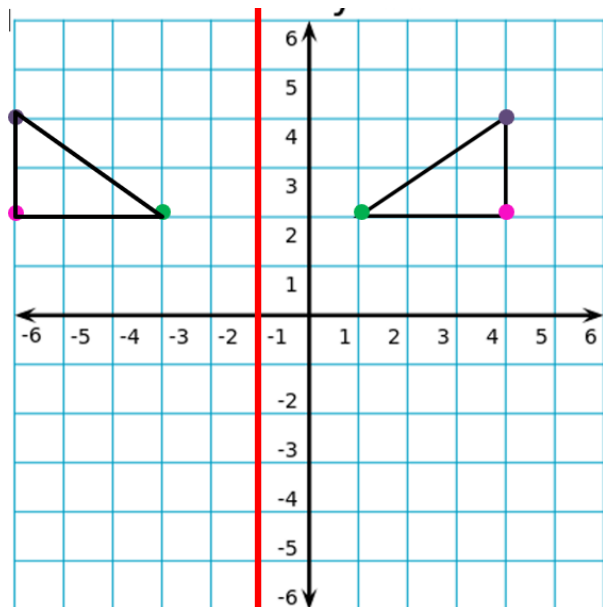
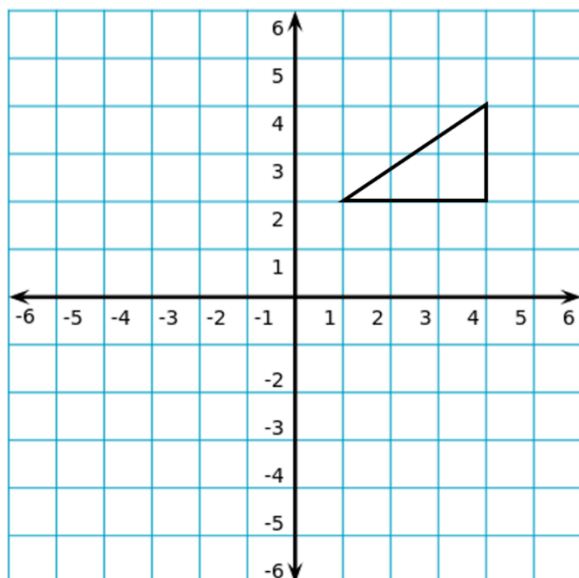


Draw the line $y = 1$ first and use this as the mirror line.



Example 3

Reflect the shape in the line $x = -1$



Example 4

Reflect the shape in the line $y = x$

