

### Question 34

Nicholas went shopping and spent one-third of his money on a present for his mother. He then spent one-third of what remained on craft papers for his classmate, Sharon. He then had \$12 left.

How much money did he have to begin with?

$$1 - \frac{1}{3} = \frac{2}{3}$$

mother  $\rightarrow$

$$\frac{2}{3} \times \frac{1}{3} = \frac{2}{9} \leftarrow \text{art + craft + paper}$$

Fraction he had remaining =  $\frac{2}{3} - \frac{2}{9} = \frac{6}{9} - \frac{2}{9} = \frac{4}{9}$

$\frac{4}{9}$  of original money = 12

$\frac{1}{9}$  of " " = 3

To

- ☐ \$27
- ☐ \$36
- ☐ \$72
- ☐ \$108
- ☐ \$112



**Correct answer:**

\$27



**Hint:**

## Working Backwards:

Before craft paper =  $12 \div \frac{2}{3} = 12 \times \frac{3}{2} = \$18$

Before present for mum =  $18 \div \frac{2}{3} = \$27$