

Reasoning and Problem Solving – Multiplication and Division answers

1. $8 \times 5 = 40$ $8 \times 7 = 56$ $8 \times 11 = 88$

$3 \times 5 = 15$ $3 \times 7 = 21$ $3 \times 11 = 33$

2. $4 \times 50 = 200$

$8 \times 12 = 96$

$1 \times 124 = 124$

The whole race is 420 paces long.
So in metres, $420 \text{ paces} \div 4 = 105\text{m}$

3. **FASTEST**

$60 \div 4 = 15$ climbs

OTHERS

$60 \div 8 = 7.5$ so 7 full climbs.

4. $3 \times 15 = 45$

$4 \times 12 = 48$

The second team peeled 3 more potatoes.

5. **Team One**

$51 \div 3 = 17$ metres each

Team Two

$72 \div 4 = 18$ metres each

6. They are all correct but calculated in different ways.

7. $360 \div 3 = 120$

$120 \times 2 = 240$ dubloons

$360 \div 4 = 90$

$90 \times 3 = 270$ dubloons

$360 \div 9 = 40$

$40 \times 5 = 200$ dubloons

$360 \div 12 = 30$

$30 \times 8 = 240$ dubloons

$360 \div 18 = 20$

$20 \times 10 = 200$ dubloons

So buying either 40 of the 9m or 20 of the 18m is the cheapest choice.

8. **First**

$4 \times 12\text{m} = 48\text{m}$

Second

$2 \times 12\text{m} = 24\text{m}$

Third

$5 \times 24\text{m} = 120\text{m}$

9. Seven different ways, as below:

