



BODMAS worksheet

Name: _____

Part 1 · Noah's fair tokens



Two different orders for the school fair

A · loose tokens + two bags


$$6 + 2 \times 3 = 12$$

B · three mixed bags


$$(6 + 2) \times 3 = 24$$

Brackets, powers, $\times$ and $\div$, then $+$ and $-$. Equal priorities: work left to right.

Noah has 8 loose tokens and 3 bags of 4.

1 $8 + 3 \times 4$

(1 mark)

Answer

Working (optional)

One stall gets a sixth of 24 tokens, plus 5 extra.

2 $24 \div 6 + 5$

(1 mark)

Answer

Working (optional)

Remove one third of 12 tokens from Noah's 18.

3 $18 - 12 \div 3$

(1 mark)

Answer

Working (optional)

Four bags each hold 8 blue and 3 gold tokens.

4 $(8 + 3) \times 4$

(1 mark)

Answer

Working (optional)



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Part 2 · Calculate in order

Three teams of 2 share 36 tokens equally. Find one pupil's share.

$$5 \quad 36 \div (3 \times 2)$$

(1 mark)

Answer

Working (optional)

From 20 tokens, spend 6 at one stall and 4 at another.

$$6 \quad 20 - (6 + 4)$$

(1 mark)

Answer

Working (optional)

Share 24 tokens among 6 stalls; double one share.

$$7 \quad 24 \div 6 \times 2$$

(2 marks)

Answer

Working (optional)

Noah starts with 18 tokens, spends 6, then adds 2.

$$8 \quad 18 - 6 + 2$$

(2 marks)

Answer

Working (optional)

Add a 3-by-3 token square to 4 bags of 5.

$$9 \quad 3^2 + 4 \times 5$$

(2 marks)

Answer

Working (optional)

A square array has $5 + 1$ tokens per side. Share all equally among 9 pupils.

$$10 \quad (5 + 1)^2 \div 9$$

(2 marks)

Answer

Working (optional)



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Part 3 · Explain and create

Noah checks a stallholder's token calculation.

11 Correct the claim: $12 - 4 \times 2 = 16$.

(2 marks)

Correct calculation

Explain why

Five bags each need 6 blue and 2 gold tokens.

12 Add brackets to make $6 + 2 \times 5$ equal 40.

(2 marks)

With brackets

Calculation

Noah has 7 loose tokens and 3 equally filled bags.

13 Find the missing number: $7 + \square \times 3 = 22$.

(2 marks)

Missing number

Check

Make two token orders using the same three numbers.

14 Use 4, 5 and 2 once each to produce both 14 and 18.

(3 marks)

Makes 14

Makes 18