

# Multiplication HTO x O using the expanded written method

Use the expanded written method to calculate HTO x O



Count in multiples of the first number in each row. Copy and complete each sequence.

- a 25, , 75, , , , , 200, , , , 300
- b 40, 80, , , , , 280, , , ,
- c 60, 120, , , , , , , , , 720
- d 80, 160, , , , , , , , 800, ,
- e 90, , 270, , , , , , 720, , , , 1080

1 Estimate the answer to each calculation.

- a  $346 \times 3$     b  $673 \times 4$     c  $732 \times 9$     d  $986 \times 6$
- e  $548 \times 5$     f  $888 \times 8$     g  $647 \times 8$     h  $747 \times 5$



2 For each of the calculations in Question 1, use the expanded written method to work out the answer.

One of the answers in Challenge 2 is the odd one out. Can you find it? Explain how it is different from the other answers.

Example				
Th	H	T	O	
	4	6	3	
x			8	
		2	4	(3 x 8)
	4	8	0	(60 x 8)
3	2	0	0	(400 x 8)
3	7	0	4	
				1

# Solving word problems

Solve problems and reason mathematically



Challenge 1

Copy the calculations and fill in the missing signs.

- a  $4 \text{ (yellow circle)} 8 = 32$     b  $60 = 12 \text{ (blue square)} 5$     c  $72 = 9 \text{ (yellow square)} 8$     d  $15 \text{ (pink circle)} 3 = 12$
- e  $64 \text{ (dark blue square)} 8 = 8$     f  $7 \text{ (green triangle)} 8 = 15$     g  $32 \text{ (pink triangle)} 8 = 24$     h  $96 \text{ (green circle)} 12 = 8$

Challenge 2

Choose a sports item from the pictures. Roll the 0–9 dice to find out how many of that item you will buy. If you roll 0 or 1, roll the dice again. Write a multiplication calculation. Estimate the answer and then work it out. Make six calculations. Choose a different sports item each time.

You will need:  
• 0–9 dice



Challenge 3

Answer these questions about the sports equipment above.

1 Tennis balls are sold in packs of 3. How much do 90 tennis balls cost?

2 What is the difference in cost between a rugby ball and a cricket ball?

3 The tennis club buys 8 tennis nets, 8 tennis racquets and 8 sets of tennis balls. What is the total cost?

4 There are 30 children in Year 4. Each child buys a pair of rugby boots. How much money is spent?

5 If I buy 1 cricket bat, 2 sets of cricket stumps and 3 cricket balls, how much do I spend?

6 The sports store has sold out of hockey sticks. They cost 4 times more than a set of tennis balls. What is the cost of a hockey stick?

