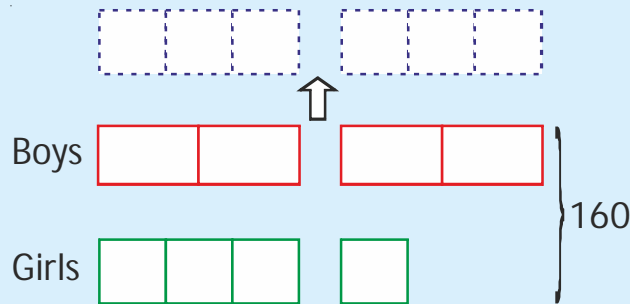


01

4 boys and 4 girls went door to door to sell 160 muffins. If 2 boys sold as many muffins as 3 girls, how many muffins did each boy sell ?

- (A) 26                      (B) 24  
(C) 28                      (D) 22



Number of muffins sold by 5 boys = number of muffins sold by 6 girls.

Number of muffins sold by 4 boys and 4 girls = number of muffins sold by 10 girls

Number of muffins sold by 10 girls = 160

Number of muffins sold by 1 girl =  $160 \div 10 = 16$

Number of muffins sold by 4 boys =  $6 \times 16 = 96$

$96 \div 4 = 24$

Each boy sold 24 muffins

**02**

Rishit and Nishit had 870 coloured marbles altogether. Nishit bought another 12 coloured marbles. Rishit had twice as many coloured marbles as Nishit in the end. How many coloured marbles did Nishit have at first ?



Number of coloured marbles they had in the end  
=  $870 + 12 = 882$

Nishit		}	882
Rishit	1 unit		

3 units  $\longrightarrow$  882 coloured marbles

1 unit  $\longrightarrow$   $882 \div 3 = 294$  coloured marbles

$294 - 12 = 282$

Nishit had 282 coloured marbles at first

**03**

Three children did the following sum on their own.

Tanya	Tanmayee	Tanveer
$\begin{array}{r} \text{(a) Th H T O} \\ \phantom{0}^1 \phantom{0}^1 4 3 0 \\ \times \phantom{000} 4 \\ \hline 5 7 2 4 \end{array}$	$\begin{array}{r} \text{(b) Th H T O} \\ \phantom{0}^1 \phantom{0}^1 4 3 0 \\ \times \phantom{000} 4 \\ \hline 5 7 2 0 \end{array}$	$\begin{array}{r} \text{(a) Th H T O} \\ \phantom{0} 1 4 3 0 \\ \times \phantom{000} 4 \\ \hline 5 8 7 4 \end{array}$




- (a) Put a tick (✓) in the box for the sum that is done correctly.  
 (b) Put a cross (✗) in the box for the sum that is done incorrectly.  
 (c) Identify the mistake(s) and explain what was done incorrectly.

(a) and (b)

Tanya	Tanmayee	Tanveer
$\begin{array}{r} \text{(a) Th H T O} \\ \phantom{0}^1 \phantom{0}^1 4 3 0 \\ \times \phantom{000} 4 \\ \hline 5 7 2 4 \end{array}$	$\begin{array}{r} \text{(b) Th H T O} \\ \phantom{0}^1 \phantom{0}^1 4 3 0 \\ \times \phantom{000} 4 \\ \hline 5 7 2 0 \end{array}$	$\begin{array}{r} \text{(a) Th H T O} \\ \phantom{0} 1 4 3 0 \\ \times \phantom{000} 4 \\ \hline 5 8 7 4 \end{array}$




- (c) Tanya multiplied 0 by 4 and got the answer 4 instead of 0.  
 Tanveer added each digit of the 4-digit number to the multiplier instead of multiplying.

**04** The total cost of 20 burgers and 45 packets of fries is ₹150. The total cost of 10 burgers and 25 drinks is ₹55. Each packet of fries costs ₹1 more than each drink. What is the cost of a packet of fries ?



$$20 \text{ burgers} + 45 \text{ packets of fries} = ₹150$$

$$10 \text{ burgers} + 25 \text{ drinks} = ₹55$$

$$1 \text{ drink} = 1 \text{ packet of fries} - ₹1$$

$$25 \text{ drinks} = 25 \text{ packets of fries} - ₹25$$

$$10 \text{ burgers} + 25 \text{ packets of fries} - ₹25 = ₹55$$

$$10 \text{ burgers} + 25 \text{ packets of fries} = ₹55 + ₹25 = ₹80$$

$$20 \text{ burgers} + 50 \text{ packets of fries} = 2 \times ₹80 = ₹160$$

$$50 \text{ packets of fries} - 45 \text{ packets of fries} \\ = ₹160 - ₹150$$

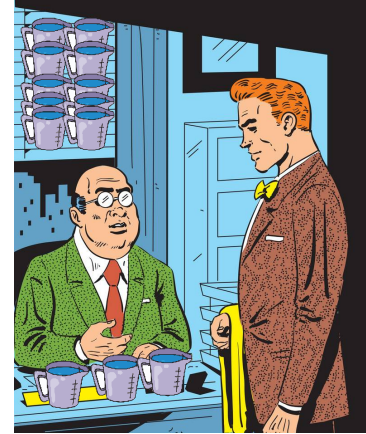
$$5 \text{ packets of fries} = ₹10$$

$$1 \text{ packet of fries} = ₹10 \div 5 = ₹2$$

A packet of fries costs ₹2

**05** A shop sells mugs at ₹3 each. During a sale, 1 mug is given free for every 3 mugs a customer bought.

- (a) What is the most number of mugs a customer can buy with ₹60 ?
- (b) What is the smallest amount a customer will have to pay for 47 mugs ?



$$₹3 = 1 \text{ mug}$$

$$₹60 = ₹60 \div ₹3 = 20 \text{ mugs}$$

$$20 \div 3 = 6 \text{ R } 2$$

The customer can get 6 mugs free

$$20 + 6 = 26$$

The most number of mugs a customer can buy with ₹60 is 26