



- 1) a) $3 \times 2 = 6$ or $2 \times 3 = 6$
 b) $30 \times 2 = 60$ or $20 \times 3 = 60$
 c) $8 \times 3 = 24$ or $3 \times 8 = 24$
 d) $80 \times 3 = 240$ or $30 \times 8 = 240$
 e) $4 \times 5 = 20$ or $5 \times 4 = 20$
 f) $40 \times 5 = 200$ or $50 \times 4 = 200$
 g) $10 \times 3 = 30$ or $3 \times 10 = 30$
 h) $100 \times 3 = 300$ or $30 \times 10 = 300$

- 2) There are 6 columns of 4 boxes.
 $6 \times 4 = 24$
 There are 24 boxes altogether.
 Each box contains ten tennis balls.
 There are 6 columns of 40 balls.
 $6 \times 40 = 240$
 There are 240 balls altogether.

3)

$7 \times 5 = 35$	$3 \times 4 = 12$	$6 \times 8 = 48$	$64 \div 8 = 8$
$70 \times 5 = 350$	$30 \times 4 = 120$	$60 \times 8 = 480$	$640 \div 8 = 80$
$5 \times 70 = 350$	$4 \times 30 = 120$	$8 \times 60 = 480$	$640 \div 80 = 8$
$50 \times 7 = 350$	$40 \times 3 = 120$	$80 \times 6 = 480$	$80 \times 8 = 640$
$7 \times 50 = 350$	$3 \times 40 = 120$	$6 \times 80 = 480$	$8 \times 80 = 640$
$350 \div 50 = 7$	$120 \div 40 = 3$	$480 \div 80 = 6$	
$350 \div 7 = 50$	$120 \div 3 = 40$	$480 \div 6 = 80$	
$350 \div 5 = 70$	$120 \div 4 = 30$	$480 \div 8 = 60$	
$350 \div 70 = 5$	$120 \div 30 = 4$	$480 \div 60 = 8$	

- 1) Thomas is not correct. He has not understood that, when one of the numbers in the calculation that he wants to solve is ten times bigger, then the answer will also be ten times bigger. He has worked out that the answer to 8×5 is 40. He now needs to multiply the answer by 10 to calculate 80×5 , as 80 is ten times larger than 8.



- 2) Geri is correct. 8×5 is 40. 80×5 and 50×8 will both be ten times larger than 40, because in each case one number in the calculation has been made ten times larger. The answer to both calculations is 400. Children may prove this by drawing arrays for 8×5 and 5×8 , or by using manipulatives such as place value counters to represent 80×5 and 50×8 .



1) Children should choose two from the following options. Commutative facts may also be given.

<p>240</p> <p>$40 \times 6, 60 \times 4$</p> <p>$30 \times 8, 80 \times 3$</p> <p>$120 \times 2, 12 \times 20$</p>	<p>160</p> <p>$80 \times 2, 20 \times 8$</p> <p>40×4</p>	<p>180</p> <p>$90 \times 2, 20 \times 9$</p> <p>$60 \times 3, 30 \times 6$</p>
<p>120</p> <p>$30 \times 4, 40 \times 3$</p> <p>$20 \times 6, 60 \times 2$</p>	<p>360</p> <p>$90 \times 4, 40 \times 9$</p> <p>$120 \times 3, 12 \times 30,$</p> <p>$60 \times 6$</p>	<p>720</p> <p>$60 \times 12, 120 \times 6$</p> <p>$80 \times 9, 90 \times 8$</p>

- 2) a) Screen A, B, D or H
 b) Screen A – 48 rows
 Screen B – 40 rows
 Screen D – 24 rows
 Screen F – 8 rows