<u>Multiply by 10,100 and 1,000</u> <u>Multiply by 10,100 and 1,000</u>

1a. Romeo planted 412 trees.								1b. Josh read 245 pages of his book.								
Μ	HTh	TTh	Th	н	Т	0		Μ	HTh	TTh	Th	Н	T	0		
Hannah planted 100 times more trees than Romeo.								Serena read 10 times more pages than Josh.								
Μ	HTh	TTh	Th	н	T	0		Μ	HTh	TTh	Th	Н	T	0		
How many trees did they plant									How many pages have they read							
altogether?									altogether?							
মি	PS		PS													
2a. Th 100 o	10,		2b. The shape represents a multiple of 10, 100 or 1,000.													
x 4,315 = 4,315,000								8,120 = 812 x								
Μ	HTh	TTh	Th	Н	T	0		Μ	HTh	TTh	Th	Н	T	0		
M	HTh	TTh	Th	н	Т	0		м	HTh	TTh	Th	Н	Т	0		
What is the value of the fruit? Prove it								What is the value of the shape? Prove it.								
	R															
3a. Kara is matching calculations where numbers have been multiplied by either 10, 100 or 1,000 but she's jumbled up her cards. Find the matching pair.								3b. Rio is matching calculations where numbers have been multiplied by either 10, 100 or 1,000 but he's jumbled up his cards. Find the matching pairs.								
Μ	HTh	TTh	Th	Н	T	0		Μ	HTh	TTh	Th	н	T	0		
A. 63,700 B. 673 C. 673,000								A. 9,189 B. 919,800 C. 918,900								
Which number does not belong? Convince me.								Which number does not belong? Convince me.								
\sim						K		\sim						K		

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Reasoning and Problem Solving – Multiply by 10, 100 and 1,000 – Year 5 Developing

Multiply by 10,100 and 1,000



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Reasoning and Problem Solving – Multiply by 10, 100 and 1,000 – Year 5 Expected



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Reasoning and Problem Solving – Multiply by 10, 100 and 1,000 – Year 5 Greater Depth

Reasoning and Problem Solving Multiply by 10,100 and 1,000

Developing

1a. 41,612 trees.
2a. grapes = 1,000 because 4,4315 x 1,000 = 4,315,000
3a. A is the odd one out because 673 x 1,000 = 673,000

Expected

4a. 105,144 tickets.
5a. A. apple = 100 because 2,765 x 100 = 276,500
B. banana = 10 because 30,209 x 10 = 302,090
C. pear = 100 because 519 x 100 = 51,900
6a. D is the odd one out because 664 x 100 = 66,400 and 960 x 10 = 9,600

<u>Greater Depth</u>

7a. 499,500m which is 499.5km. 8a. A. apple = 10 if the banana = 100 or the apple = 100 if the banana = 10 because 10 x 100 x 4,261 = 4,261,000 B. peach and grapes = 10 because 9,605 x 10 x 10 = 960,500 C. strawberry = 10 and the pear = 10 because $3117 \times 10 \times 10 = 311,700$ 9a. B is the odd one out because 55 tens and 4 ones = $554 \times 100 = 55,400$ and 50 tens and 45 ones = $545 \times 1,000 = 545,000$

<u>Reasoning and Problem Solving</u> <u>Multiply by 10,100 and 1,000</u>

Developing 1b. 2,695 pages.

2b. circle = 10 because 812 x 10 = 8,120 3b. B is the odd one out because 9,189 x 100 = 918,900

Expected 4b. 237,816 seeds. 5b. A. triangle = 1,000 because 480 x 1,000 = 480,000 B. square = 100 because 20,705 x 100 = 2,070,500 C. circle = 10 because 4,816 x 10 = 48,160 6b. C is the odd one out because 7,250 x 10 = 72,500 and 702 x 100 = 70,200

<u>Greater Depth</u>

7b. 115,605ml. 8b. A. circle and triangle = 10 because 9,605 x 10 x 10 = 960,500 B. square = 10 if the trapezium = 1,000 or the square = 1,000 if the rectangle = 10 because 710 x 1,000 x 10 = 7,100,000 C. rectangle = 10 if the triangle = 100 or the rectangle = 100 if the triangle = 10 because 2,060 x 10 + 100 = 2,060,000 9b. A is the odd one out because 104 tens and 1 one x 100 = 104,100 and 100 tens and 45 ones x 10 = 10,450



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