Bronze

1a. Look at the number shown below.

M	HTh	TTh	Th	H	T	O
				●●	●●●	●

Multiply the number by 100. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O

D VF

2a. Circle the correct answer to the following calculation.

16,251 x 10 =

M	HTh	TTh	Th	H	T	O
		●	●●●	●●	●●	●

M	HTh	TTh	Th	H	T	O

D

162,510	1,625,100	162,150

VF

3a. Complete the calculations.

[ ] = 6,461 x 1,000

M	HTh	TTh	Th	H	T	O
			●●●	●●	●●●	●

M	HTh	TTh	Th	H	T	O

D VF

4a. Add the missing multiples to complete the calculations.

3,613 x [ ] = 361,300

M	HTh	TTh	Th	H	T	O
			●●●	●●●	●	●●●

1b. Josh read 245 pages of his book.

M	HTh	TTh	Th	H	T	O

Serena read 10 times more pages than Josh.

M	HTh	TTh	Th	H	T	O

How many pages have they read altogether?

D PS

2b. The shape represents a multiple of 10, 100 or 1,000.

8,120 = 812 x ○

M	HTh	TTh	Th	H	T	O

M	HTh	TTh	Th	H	T	O

What is the value of the shape? Prove it.

D R

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.

M	HTh	TTh	Th	H	T	O

A. 9,189	B. 919,800	C. 918,900

Which number does not belong? Convince me.

Silver

5a. Look at the number shown below.

2,613

Multiply the number by 10. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O

VF

6a. Circle the correct answer to the following calculation.

35,201 x 100 =

M	HTh	TTh	Th	H	T	O

3,521,100 | 3,520,100 | 352,010

VF

7a. Complete the calculations.

A. ☐ = 1,836 x 100

B. 10 x 41,059 = ☐

C. ☐ = 6,273, x 1,000

VF

8a. Add the missing multiples to complete the calculations.

3,607 x ☐ = 360,700

306,420 x ☐ = 3,064,200

4b. Farmer A plants 216 seeds.

Farmer B plants 1,000 times more seeds than Farmer A.

Farmer C plants 100 times more seeds that Farmer A.

How many seeds do they plant altogether?

PS

5b. Each shape represents a multiple of 10, 100 or 1,000.

A. △ x 480 = 480,000

B. 2,070,500 = 20,705 x □

C. 48,160 = 4,816 x ○

What is the value of each shape? Prove it.

R

6b. Monica 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 pairs.

A. 72,500 | B. 70,200 | C. 752 | D. 702 | E. 7,250

Which number does not belong? Convince me.

Gold

9a. Look at the number shown below.

16,020

Multiply the number by 100. Record your answer below.

VF

10a. Circle the correct answer to the following calculations.

3,705 x 100 x 10 =

3,750,500	3,705,000	3,750,000

420 hundreds and 55 tens x 10 =

47,550	4,255,000	425,500

VF

11a. Complete the calculations.

A. ☐ = 400 tens and 54 ones x 10 x 10

B. 1,000 x 2,306ml = ☐

C. ☐ = 6,273cm x 10 x 100

VF

12a. Add the missing multiples to complete the calculations.

5,027cm x ☐ x ☐ = 5,027,000cm

90,206m x ☐ x ☐ = 9,020,600m

7b. Charlie collects 15ml of rain water on Tuesday and 90ml on Wednesday.

Charlie's neighbour collects 1,000 times more rain water than Charlie.

Charlie's grandad collects 100 times more rain water than Charlie.

How many millilitres have they collected altogether?

PS

8b. Each shape represents a multiple of 10, 100 or 1,000.

B. 960,500 = 9,605 ○ x △

A. □ x ⏢ x 710 = 7,100,000

C. 2,060,000 = 2,060 x ▭ x ◺

What is the value of each shape? Prove it.

R

9b. Sam is matching calculations where numbers have been multiplied by either 10, 100, 1,000 but he's jumbled up his cards. Find the matching pairs.

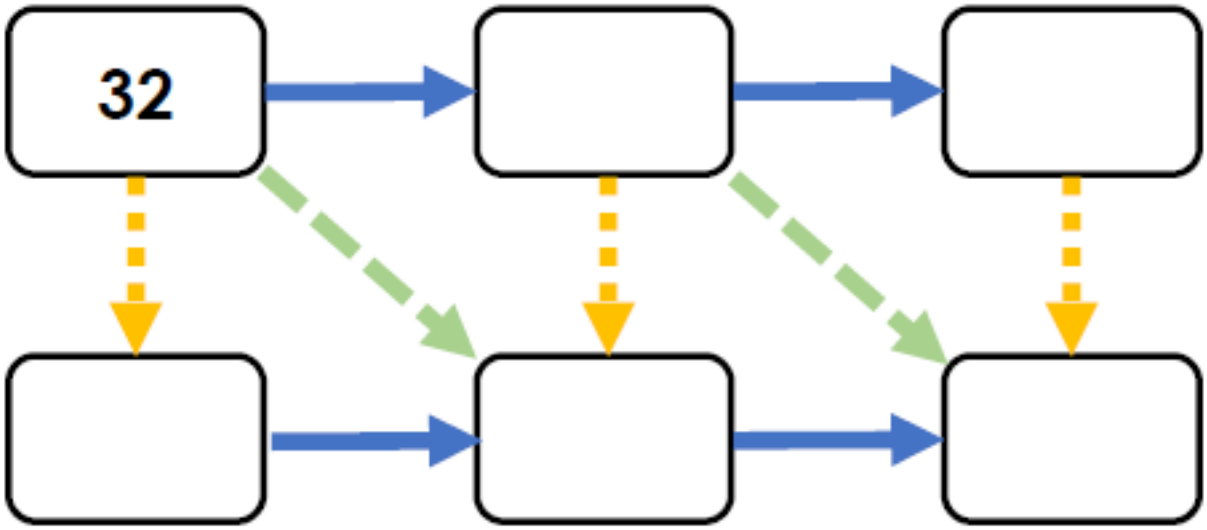
A. 103,100	B. 100 tens and 45 ones
C. 104 tens and 1 one	
D. 104,100	E. 10,450

Which number does not belong? Convince me.

Challenge

1. Here is a puzzle. The horizontal, vertical and diagonal arrows represent either multiply by 10, 100 or 1,000.

Investigate the different ways to complete the puzzle.



2. Arrange the loop cards so that each calculation is matched to the correct answer. Fill in the missing card to complete the loop.

four hundred and forty-three thousand, two hundred and ten	one thousand, four hundred and eleven multiplied by 100.
722,340	The product of 44,321 and 10.
58,500	372 x 100 + 159
seven million, two hundred and twenty-three thousand, four hundred	5,378 x 1,000
37,359	585 x 100 x 10
four million, four hundred and thirty-two thousand, one hundred	72,234 x 10
585,000	forty-four thousand, three hundred and twenty-one multiplied by 100
5,378,000	585 x 100
one hundred and forty-one thousand	seventy-two thousand, two hundred and thirty-four times 10 and 10 again