

Week 11

Lesson 1

9a. Match the calculations to the correct square numbers.



VF

9b. Match the calculations to the correct square numbers.



VF

10a. Calculate:



10b. Calculate:



12a. Complete the table below.

___ ²	___ x ___	144
		49
		64
		9



12b. Complete the table below.

___ ²	___ x ___	81
		121
		100
		1



Challenge

7a. 155 is the sum of 2 squared numbers.

$$155 = 12^2 + 3^2$$

2 squared numbers are added together to make an odd number between 50 and 100. What could they be?

3 squared numbers are added together to make an even number between 150 and 200. What could they be?



PS

8a. Solve the following problems.

I think of a number. I square it, subtract 8 and multiply by 3. My answer is 24. What was my number?

I think of another number. I square it, add 12 and then subtract 16. The answer is 140. What was my number?

Lesson 2

5a. Match the numbers to their cube numbers.

6^3	216
9^3	125
5^3	729



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5b. Match the numbers to their cube numbers.

8^3	343
12^3	512
7^3	1,728



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6a. Use $<$, $>$ or $=$ to complete the statements below.

$$7^3 \quad \square \quad 434$$

$$521 \quad \square \quad 8^3$$



6b. Use $<$, $>$ or $=$ to complete the statements below.

$$10^3 \quad \square \quad 1,000$$

$$215 \quad \square \quad 5^3$$



8a. Solve the calculations.

$$8^3 + 2^3 = \square$$

$$11^3 - 4^3 = \square$$



8b. Solve the calculations.

$$10^3 + 4^3 = \square$$

$$9^3 - 5^3 = \square$$



Challenge

5b. Kayleigh says,



The number
733 is a cube
number.

Is she correct? Prove it.



R

6b. Solve the word problem below.

I am thinking of a number.

If I cube my number, then take away 169,
I get another cube number.

What number am I thinking of?

Lesson 3

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



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5b. Look at the number shown below.

5,291

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

M	HTh	TTh	Th	H	T	O



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

$$35,201 \times 100 =$$

M	HTh	TTh	Th	H	T	O



3,521,100

3,520,100

352,010

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

$$23,460 \times 10 =$$

M	HTh	TTh	Th	H	T	O



2,346,000

2,340,600

234,600

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7a. Complete the calculations.

A. = $1,836 \times 100$

B. $10 \times 41,059 =$

C. = $6,273 \times 1,000$



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7b. Complete the calculations.

A. = $52,408 \times 100$

B. $1,000 \times 3,079 =$

C. = $29,175 \times 10$



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

$$3,607 \times \text{} = 360,700$$

$$306,420 \times \text{} = 3,064,200$$

▲

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

$$45,918 \times \text{} = 459,180$$

$$4,520 \times \text{} = 4,520,000$$

▲

Challenge

4b. Farmer A plants 216 seeds.

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


Farmer C plants 100 times more seeds than Farmer A.


How many seeds do they plant altogether?




PS

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

A.  $\times 480 = 480,000$

B. $2,070,500 = 20,705 \times$ 

C. $48,160 = 4,816 \times$ 

What is the value of each shape? Prove it.



Lesson 4

5a. Match each statement below to the correct answer.

$$42,000 \div 10 =$$

T	Th	H	T	O
	●●●●	●●		
	●			

$$42,000 \div 100 =$$

42

$$42,000 \div 1,000 =$$

T	Th	H	T	O
		●●●●	●●	
		●		



VF

5b. Match each statement below to the correct answer

$$84,000 \div 10 =$$

T	Th	H	T	O
	●●●●	●●●●		
	●●●	●		
	●●			

$$84,000 \div 100 =$$

84

$$84,000 \div 1,000 =$$

T	Th	H	T	O
		●●●●	●●●●	
		●●●	●	
		●●		



VF

6a. Calculate:

$$72,600 \div 100$$

$$72,600 \div 10$$

T	Th	H	T	O



VF

6b. Calculate:

$$29,000 \div 1,000$$

$$29,000 \div 10$$

T	Th	H	T	O



VF

7a. Use two of the numbers below to make this statement correct.

$$\square \div 1,000 < \square \div 100$$

a. $84,700$

b. $99,000$

c.

T	Th	H	T	O
●●●●	●●●●			
●●				



VF

8a. True or false? The following calculations both give an answer of 95.

$$95,000 \div 1,000$$

$$95,000 \div 100 \div 10$$

T	Th	H	T	O
●●●●	●●●●			
●●●	●			

Challenge

5a. Daniel is completing the calculation below.

$$62,000 \div 100 =$$

He has shown his answer on the place value chart below.

T Th	Th	H	T	O
			6	2

Explain the mistake that Daniel has made.



R

6a. Josh is thinking of a five-digit number.

He divides the number by 100.

The answer he gets after dividing by 100 is less than 400 but greater than 200.

The digits in the number have a sum of 7.

What number did Josh start with?

Lesson 5

4a. True or false? The answer is 12,222.

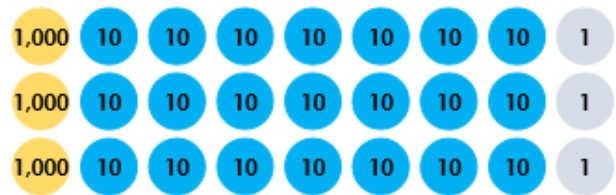


	6	1	1	1
x				2



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4b. True or false? The answer is 3,013.



	1	0	7	1
x				3



VF

5a. Solve: $3,572 \times 3$. Use a formal method to show your working out.

Th	H	T	O

5b. Solve: $2,707 \times 5$. Use a formal method to show your working out.

Th	H	T	O

6a. There are 6,405 straws in a box.

Th	H	T	O

How many will there be in 4 boxes?
Complete the chart and use a formal method.

6b. There are 4,821 counters in a bag.




Th	H	T	O

How many will there be in 5 bags?
Complete the chart and use a formal method.

Challenge

7a. Cassie solved the calculation below and thinks the answer is 10,808.

$$5,207 \times 4$$

Th	H	T	O
			

Complete the calculation using a formal method to identify her mistake.



PS

8a. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

	7	1	<input type="text"/>	8
x				<input type="text"/>
<input type="text"/>	2	6	4	8
			4	

