Green
Multipliplying and dividing by 10, 100 and 1000

Draw the counters to complete the calculation 100 x 27.

Th	H	T	O

3 x 100

5 x 100

4 x 100

2a. Match each calculation to the correct answer.

H | T | O

A. (100) (100) (10) (10)
   (100) (100) (10) (10)

÷ 10   1. 44

H | T | O

B. (100) (10) (10)
        (10)

÷ 10   2. 13

3a. A recipe makes 10 cookies. These are some of the ingredients:
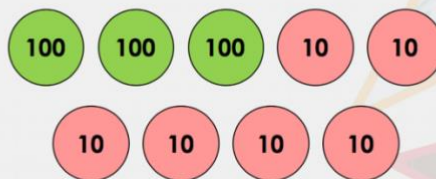
250g butter
420g sugar
140g flour

Lucas says,

To make 1 cookie, I will need 12g of flour.

H | T | O
   (10) | (1) (1)

Is he correct? Prove it.

How many groups of 10 can be made from 3 hundreds and 6 tens?

(100) (100) (100) (10) (10)

(10) (10) (10) (10)

5. Multiply the following numbers by 100 and place them in order from smallest to greatest.

A.
Th	H	T	O
		::	:::

B.
thirty-four

C.
Th	H	T	O
		:	:::

D.
37

E.
forty-two

Yellow
Multiplying and dividing by 10, 100 and 1000

Shazia has completed the statement below.

$$65 \times 100 = 56 \times 100$$

Is she correct? Explain your reasoning.
Find and correct any errors.

7a. Which statements are correct?

A. $42 \times 100 > 24 \times 100$

B. $16 \times 100 = 100 \times 16$

C. $51 \times 100 < 19 \times 100$

8b. True or false?

$$100 \times 11 = 11,000$$

A recipe makes 10 drinks.
These are some of the ingredients:

450ml lemonade
290ml orange juice
350g ice
760g fruit

Zachary says,

To make 1 drink, I will need 30ml of orange juice.

10 10 10

Is he correct? Prove it.

Match each statement below to the correct answer.

34,000 ÷ 10 =

T Th	Th	H	T	O
		●●	●●	
		●	●●	

34,000 ÷ 100 =

3,400

34,000 ÷ 1,000 =

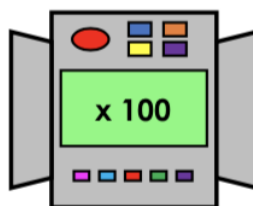| T Th	Th	H	T	O
		●●	●●	
		●	●●	

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7. Winston has not finished his homework. Each number should be multiplied by 100.
Add the missing numbers to complete Winston's homework.

A. 1 ten and 17 ones

B. 5 tens and twenty ones

x 100

C. 6 tens and 11 ones

D. 5 tens and fifteen ones

Red
Multiplying and dividing by 10, 100 and 1000

Which statements are correct?

A. 51 x 100 < 15 x 100

B. 96 x 100 > 100 x 93

C. 100 x 87 = 87 x 100

Dylan is going to order some rulers in boxes of 100.
There are 1,350 pupils in the whole school.

I need to order 13 boxes.

Is Dylan correct? Explain your answer.

9a. Naila has completed the statement below.

> 7 tens and 5 ones x 10 x 10 >
> 6 tens and 18 ones x 100

Is she correct? Explain your reasoning.
Find and correct any errors.

11b. Which statements are correct?

A. 100 x 63 > 56 x 100

B. $\frac{37}{\text{ones}}$ x 100 > 100 x 40

C. $\frac{5}{\text{tens}}$ x 100 = 50 x 100

Leon and Katie are polishing the trophies in the cabinet. It takes 10 minutes to polish each trophy.

Altogether they polished for 280 minutes.

How many trophies could Leon and Katie have polished each?
Find 3 possibilities.

Green Answers
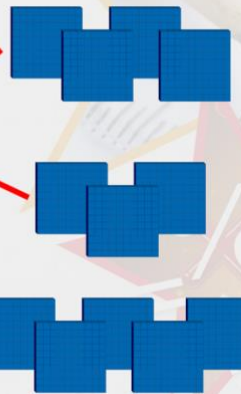## Multiplying and dividing by 10, 100 and 1000

Draw the counters to complete the calculation 100 x 27.

Th	H	T	O
● ●	● ● ● ● ● ● ●		

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3 x 100

5 x 100

4 x 100

2a. Match each calculation to the correct answer.

A.

H	T	O
100 100	10 10	
100 100	10 10	

÷ 10   1. 44

B.

H	T	O
100	10 10	
	10	

÷ 10   2. 13

3a. A recipe makes 10 cookies. These are some of the ingredients:

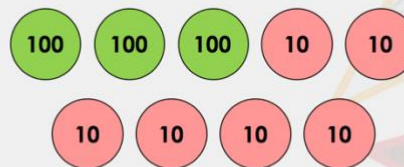Lucas is incorrect because 140g divided by 10 is 14g.

Lucas says,

To make 1 cookie, I will need 12g of flour.

H	T	O
	10	1 1

Is he correct? Prove it.

How many groups of 10 can be made from 3 hundreds and 6 tens?

100 100 100 10 10

10 10 10 10

36

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5. Multiply the following numbers by 100 and place them in order from smallest to greatest.

A.

Th	H	T	O

B.

C.

Th	H	T	O

A= 4300, E= 4200, D= 3700, B= 3400, C= 1400

D.

37

E.

forty-two

Shazia has completed the statement below.

65 x 100 = 56 x 100

Is she correct? Explain your reasoning.
Find and correct any errors.

Shazia has not completed the statement correctly because 6,500 is not equal to 5,600. The correct statement is 65 x 100 > 56 x 100.

7a. Which statements are correct?

A. 42 x 100 > 24 x 100

A and B are correct.

B.

C. 51 x 100 < 19 x 100

8b. True or false?

100 x 11 = 11,000

False, the answer is 1,100.

A recipe makes 10 drinks.
These are some of the ingredients:

450ml lemonade
290ml orange juice
350g ice
760g fruit

Zachary says,

To make 1 drink, I will need 30ml of orange juice.

10 10 10

Is he correct? Prove it.

Zachary is incorrect because 290 ÷ 10 = 29, not 30.

Match each statement below to the correct answer.

T Th	Th	H	T	O

34,000 ÷ 10 =

34,000 ÷ 100 =

3,400

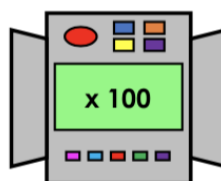| T Th	Th	H	T	O

34,000 ÷ 1,000 =

7. Winston has not finished his homework. Each number should be multiplied by 100. Add the missing numbers to complete Winston's homework.

A. 1 ten and 17 ones

B. 5 tens and twenty ones

x 100

C. 6 tens and 11 ones

D. 5 tens and fifteen ones

2700
7100
7100
6500

Red Answers
Multiplying and dividing by 10, 100 and 1000

Which statements are correct?

A. 51 x 100 < 15 x 100

B. 96 x 100 > 100 x 93

C. 100 x 87 = 87 x 100

B and C are correct

Dylan is going to order some rulers in boxes of 100.
There are 1,350 pupils in the whole school.

I need to order 13 boxes.

Is Dylan correct? Explain your answer.

Dylan is not correct because he needs 14 boxes. 14 x 100 = 1,400 which will be enough for all the pupils at his school.

9a. Naila has completed the statement

Naila has not completed the statement correctly because 7,500 is not greater than 7,800. The correct statement is: 7 tens and 5 ones x 10 x 10 < 6 tens and 18 ones x 100.

Is she correct? Explain your reasoning.
Find and correct any errors.

11b. Which statements are correct?

A. 100 x 63 > 56 x 100

A and C are correct.

B.

C. 5 tens x 100 = 50 x 100

Leon and Katie are polishing the trophies in the cabinet. It takes 10 minutes to polish each trophy.

Altogether they polished for 280 minutes.

How many trophies could Leon and Katie have polished each?
Find 3 possibilities.

Various answer, for example;
They polished 28 trophies altogether.
14 and 14
20 and 8
10 and 18