

Tricky

Multiply by 10, 100 and 1,000

1. Jess is multiplying different numbers by 10, 100 or 1,000. Circle the greatest number and underline the smallest number she creates.

A. $676 \times 1,000$

HTh	TTh	Th	H	T	O
			•••	•••	•••

B. $61,230 \times 10$

HTh	TTh	Th	H	T	O
	•••	•	••	•••	

C. $6,231 \times 100$

HTh	TTh	Th	H	T	O
		•••	••	•••	•



2. Maisie is multiplying $420 \times 1,000$. She has shown her starting number and her answer on the place value grids below.

HTh	TTh	Th	H	T	O
			••	••	

HTh	TTh	Th	H	T	O
		••	••		••


Is Maisie correct?



3. Draw a line from the starting number to $\times 10$, $\times 100$ or $\times 1,000$ and draw a line to the correct total.

A.


HTh	TTh	Th	H	T	O
		••	••	••	••



HTh	TTh	Th	H	T	O
		••	••	••	••

B.


HTh	TTh	Th	H	T	O
	••	•	••	••	••



HTh	TTh	Th	H	T	O
	••	•	••	••	••

C.

HTh	TTh	Th	H	T	O
		••	••	••	••



HTh	TTh	Th	H	T	O
		••	••	••	••



Trickier

Multiply by 10, 100 and 1,000

4. Joshua is multiplying different numbers by 10, 100 or 1,000. Circle the greatest number and underline the smallest number he creates.

A. $7,152 \times 10$ B. $4,205 \times 1,000$ C. $81,426 \times 10$

D. $5,081 \times 100$ E. 764×100 F. $962 \times 1,000$




5. Alfie is multiplying 2,805 by 100. He has shown his answer on the place value grid below.


HTh	TTh	Th	H	T	O
	••	•••		••	


Is Alfie correct?




6. Draw a line from the starting number to $\times 10$, $\times 100$ or $\times 1,000$ and draw a line to the correct total.

A. 515  $154,920$

B. $50,412$  $51,500$

C. $15,492$  $5,402,000$

D. $5,402$  $504,120$



Dividing by 10, 100 and 1,000

1. Match the starting numbers to the correct operation and answers. One has been done for you.

TTh	Th	H	T	O
••	•••			

 $\div 10$

TTh	Th	H	T	O
			••	•••

TTh	Th	H	T	O
•••	•			

 $\div 1,000$

TTh	Th	H	T	O
•••	•••	•••	•••	

TTh	Th	H	T	O
•••	•••	••		

 $\div 100$

TTh	Th	H	T	O
•••	•••	••	••	••

TTh	Th	H	T	O
•••	••	••		

 $\div 100$

TTh	Th	H	T	O
•••	••	••	••	••



2. Which calculation is the odd one out?

A.

TTh	Th	H	T	O
••	••	••	••	

 $\div 100$

B.

TTh	Th	H	T	O
		••	••	

 $\div 10$

C.

TTh	Th	H	T	O
••	••			

 $\div 1,000$



3. Mary has put a number into the three function machines below. She split some of her juice and some of the digits have been covered.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 10$

Th	H	T	O
••	••	••	••

 My number has five digits.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 100$

H	T	O
••	••	••

 My number can be divided by 10, 100 and 1,000 evenly.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 1,000$

T	O
••	••

 My number has a digit sum of 5.

What number could Mary have started with? Find three possibilities.

Dividing by 10, 100 and 1,000

4. Match the starting numbers to the correct operation and answers. One has been done for you.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 10$ 27

$27,000$ $\div 1,000$

TTh	Th	H	T	O
		••		•••

$20,700$ $\div 10$ 270

TTh	Th	H	T	O
••			•••	

 $\div 100$ $2,007$



5. Which calculation is the odd one out?

A.

TTh	Th	H	T	O
••	••	••	••	

 $\div 100$

B. $5,870 \div 10$

C. $56,700 \div 100$



6. Annie has put a number into the three function machines below. She split some of her juice and some of the digits have been covered.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 10$

Th	H	T	O
••	••	••	••

 My number has five digits.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 100$

H	T	O
••	••	••

 My number can be divided by 10, 100 and 1,000 evenly.

TTh	Th	H	T	O
••	••	••	••	••

 $\div 1,000$

T	O
••	••

 My number has a digit sum of 9.

What number could Annie have started with? Find three possibilities.

Trickiest

Multiply by 10, 100 and 1,000

7. Jacob is multiplying different numbers by 10, 100 or 1,000. Circle the greatest number and underline the smallest number he creates.

- A. $395 \times 10 \times 100$ B. $40 \text{ tens and } 15 \text{ hundreds} \times 1,000$ C. $3,950 \times 10 \times 10$
- D. $81 \text{ hundreds and } 12 \text{ ones} \times 100$ E. $509 \times 10 \times 100$ F. $65 \text{ hundreds and } 124 \text{ ones} \times 10$



8. Charlie is multiplying 405cm by 1,000. He has given his answer in metres.



The answer is 4,050 metres.

Alfie

Is Charlie correct?



9. Draw a line from the starting number to $\times 10$, $\times 100$ or $\times 1,000$ and draw a line to the correct total.

- A. $2,205p$ $\times 100$ £2,520
- B. $720cm$ $\times 10$ 702m
- C. $7,020cm$ $\times 1,000$ £220.50
- D. $252p$ $\times 1,000$ 7,200m



Dividing by 10, 100 and 1,000

7. Match the starting numbers to the correct operation and answers. One has been done for you.

3 thousand, 14 hundreds and 5 ones	$\div 10$	425
42 thousands and 50 tens	$\div 1,000$	44.05
4,255	$\div 100$	1 ten and 34 ones
44,000	$\div 100$	42 tens, 5 ones and 5 tenths



8. Which calculation is the odd one out?

- A. $6,150cm \div 100$ B. $61,500cm \div 1,000$
- C. $615cm \div 100$



9. Dylan has put a number into the three function machines below. He spilt some of his juice and most of the digits have been covered.

3

$\div 10$

$\div 100$

$\div 1,000$

My number can be divided to create answers up to 2 decimal places.

My number has a digit sum of eight.

Zero is the only digit that is used more than once in my number.

What number could Dylan have started with? Find three possibilities.

Multiply by 10, 100 and 1,000

1. A circled, B underlined.
2. Maisie is not correct. She should show an answer of 420,000.
3. $A \times 100 = \text{PV Chart showing } 313,400$; $B \times 10 = \text{PV Chart showing } 514,600$;
 $C \times 1,000 = \text{PV Chart showing } 825,00$

4. B circled, A underlined.
5. Alfie is not correct. He should show an answer of 280,500.
6. $A \times 100 = 51,500$; $B \times 10 = 504,120$; $C \times 10 = 154,920$; $D \times 1,000 = 5,402,000$

7. B circled, F underlined.
8. Charlie is correct.
9. $A \times 10 = \text{£}220.50$; $B \times 1,000 = 7,200m$; $C \times 10 = 702m$; C ; $D \times 1,000 = \text{£}2,520$

Divide by 10, 100 and 1000

1. $71,000 \div 1,000 = 71$; $34,500 \div 100 = 345$; $63,600 \div 10 = 6,360$
2. A
3. Various answers, for example: 50,000; 32,000; 14,000

4. $27,000 \div 1,000 = 27$; $20,700 \div 100 = 207$; $20,070 \div 10 = 2,007$
5. C
6. Various answers, for example: 63,000; 36,000; 72,000

7. $42 \text{ thousands and } 50 \text{ tens} \div 100 = 425$; $4,255 \div 10 = 42 \text{ tens, } 5 \text{ ones and } 5 \text{ tenths}$;
 $44,000 \div 1,000 = 1 \text{ ten and } 34 \text{ ones}$
8. C
9. Various answers, for example: 41,030; 14,030; 50,030