

Numbers

With Classified answer book



8- Multiplying and Dividing by the Power of 10

1.	Multiply each i	number by 10			
	(a) 7.67	(b) 0.364	(c) 38.3	(d) 4.7002 (e)	0.093
2.	Divide each nu	mber by 10 ²			
	(a) 978	(b) 15.6	(c) 3.48	(d) 0.574	(e) 1354
3.	Muliply each r	number by 10			
	(a) 758	(b) 7029	(c) 64.3	(d) 9.106	(e) 0.68
4.	Divide each n	umber by 10 ⁻³			
	(a) 1.358	(b) 0.684	(c) 0.0685	(d) 1.57	(e) 358
5.	Calculate				
	a) 34x10-	3	d) 0	.064x10-3	
b) 7.94x10-2			e)	79.8/10 ⁻¹	
	c) 57.6x	10 ²	f)	543x10 ⁻²	

6. Use these mathematical terms to complete the statements below.

	cube	cube root	square	square root		
10	is the		**************	************	of 10	10
144	1 is the				of 12	;
5 is	the	****			of 12	25

7. Complete the calculations.

8. Put a ring around the number that is equivalent to 10

9. Calculate:

(b) Write down the value of the digit 4 in the answer to (a)

- 11. Write down the value of the digit 3 in the answer 931 x 100
- 12. Write down the value of the digit 5 in the answer 125000 ÷ 100
- 13. Fill in the missing numbers

0

0

(c)
$$\times$$
 10 = 457.1

14. Shown below are some questions and answers.

Match the correct questions and answers. The first one has been completed for you.

15. Complete this statement.

$$= 0.01 \div 72.9$$
 0.1

16. Work out twenty thousand divided by one million

17. Complete each statement:

a)
$$7 \times 10.... = 70$$

d)
$$700 \div 10^3 = 0.007 \dots$$

b)
$$0.7 \div 10^{-3} = \dots$$

c)
$$0.07 \div 10^{-4} = 7 \times \dots$$

e)
$$70 \div 10^{-2} = \dots \times 10^{-2}$$

18. A coffee shop sells cups of coffee in 0.4 litre cups. In one day they sell 10000 cups of coffee.
How many litres of coffee do they sell?



The answer is 3.8000

a) What mistake has Amir made?

b) Work out the correct answer.

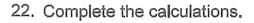
20. Carly needs 42000 blocks of Lego to build a large castle.

The lego blocks are sold in boxes of 100.

How many boxes of lego does she need?

20. An egg box can hold 10 eggs.
How many eggs are there in 45 full boxes?

21. Jacob is paid £10 an hour.His monthly pay for October was £890How many hours did hours did Jacob work in October?



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- 23. When you multiply a number by 10⁻⁴, is the answer larger or smaller than when you multiply the number by 10⁻⁵?
- 24. If you divide a number by 10⁻⁴, is the answer larger or smaller than when you divide the number by 10⁻⁵?

25. Tommy is 1.4 m tall.

A tree is 10 times as tall as Tommy.

A building is 100 times as tall as Tommy.

a) How tall is the tree?

m

b) How much taller is the building than the tree?

42	m
97,47	

26. Match the multiplications to the descriptions.

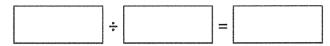
multiply by 10

multiply by 100

....

multiply by 1,000

- 27. Use your knowledge of measure to work out the answers.
 - a) What is the mass of the box in kilograms?





b) What is the height of the sunflower in metres?

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c) What is the amount of juice in litres?

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÷	=	

