Information:

These questions have been taken from the KS2 Reasoning test to help your children practise specific question types.

National Curriculum Objectives:

Mathematics Year 4: (4F9) Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths

Mathematics Year 5: (5C6b) <u>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</u> Mathematics Year 6: (6F9a) <u>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100</u> and 1000 giving answers up to three decimal places

Differentiation:

Beginner Identify whether the start number has been multiplied or divided by 10 or 100. Starting number is either a whole number or a number to one decimal place. Aimed at Year 4 Secure/Year 5 Emerging.

Easy Identify whether the start number has been multiplied or divided by 10, 100 or 1000. Starting number is either a whole number or a number to one decimal place. Aimed at Year 5 Developing.

Tricky Identify whether the start number has been multiplied or divided by 10, 100, 1000. Starting number is either a whole number, a number to one decimal place or to two decimal places. Aimed at Year 5 Secure/Year 6 Emerging.

Expert Identify whether the start number has been multiplied or divided by 10, 100, 1000. Starting number is either a whole number, a number to one decimal place, to two decimal places or to three decimal places. Aimed at Year 5 Mastery/Year 6 Developing.

More <u>Reasoning</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.

classroomsecrets.com

© Classroom Secrets Limited 2018

Multiplying and Dividing by 10, 100 and 1000 - Teaching Information

Here are four cards.

Use a card to complete each calculation. You can use a card more than once.

	x 100	÷ 10	x 10	÷ 100	
43	= 430	820	= 82	15 = 1.5	
43	= 4.3	820	= 8200	15 = 1500	
43	= 4300	820	= 8.2	15 = 150	
		classrooms	secrets.com		



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Beginner

Here are four cards.

Use a card to complete each calculation. You can use a card more than once.

	x 100	÷ 10	x 10	÷ 100
27	= 270	9	= 0.9	12 = 1200
27	= 2.7	٩	= 900	12 = 1.2
27	= 2700	٩	= 90	12 = 120
		classroomse	ecrets.com	



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Beginner

Here are four cards.

Use a card to complete each calculation. You can use a card more than once.

	x 100	-	- 10	x 10		÷ 100
43	x 10	= 430	820 ÷ 10) = 82	15	÷ 10 = 1.5
43	÷ 10	= 4.3	820 x 10	= 8200	15	x 100 = 1500
43	x 100	= 4300	820 ÷ 10	0 = 8.2	15	<mark>x 10</mark> = 150
		clo	assroomse	ecrets.com		



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Beginner ANSWERS

Here are four cards.

Use a card to complete each calculation. You can use a card more than once.

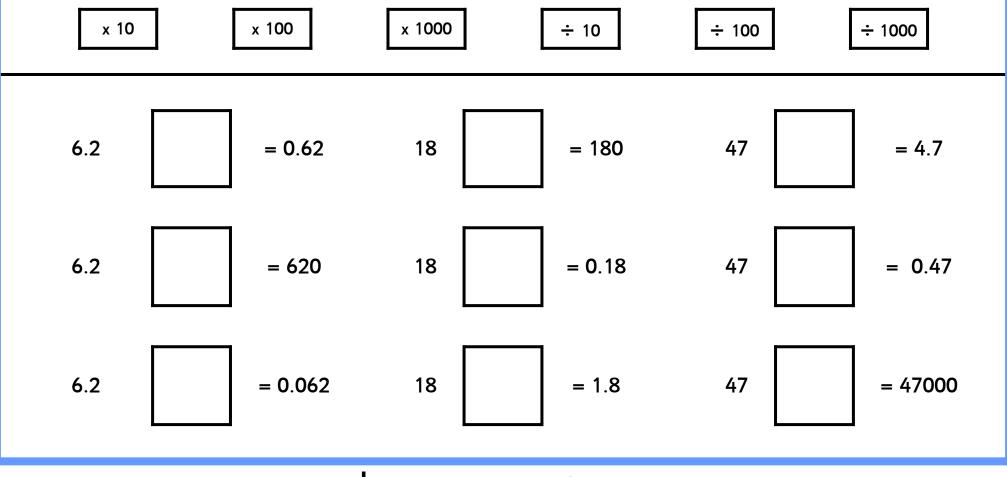
	x 100	÷ 10	x 10	÷ 100
27	<mark>x 10</mark> = 270	٩	÷ 10 = 0.9	12 x 100 = 1200
27	÷ 10 = 2.7	٩	x 100 = 900	12 ÷ 10 = 1.2
27	x 100 = 2700) 9	x 10 = 90	12 x 10 = 120
		classroo	omsecrets.com	



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Beginner ANSWERS

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.



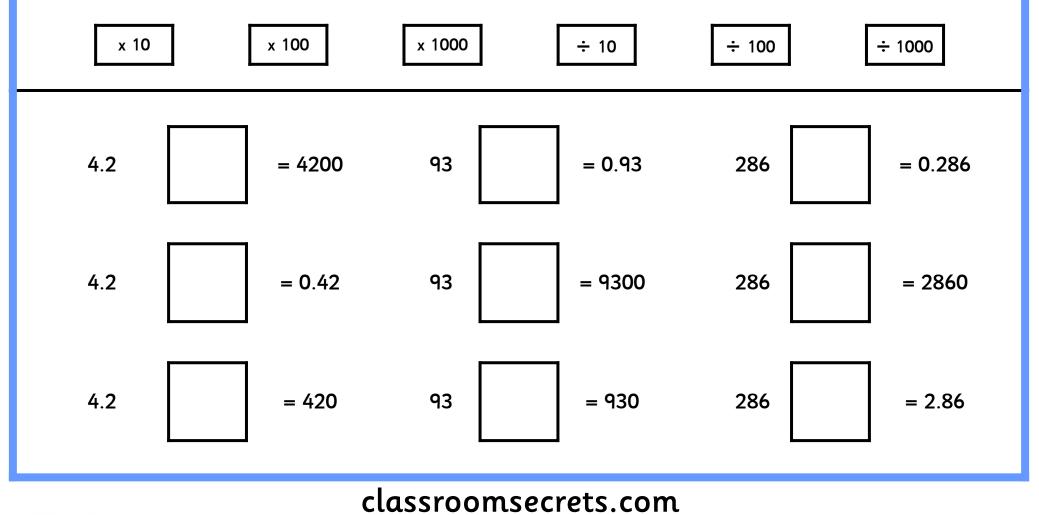
classroomsecrets.com



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Easy

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.



© Classroom Secrets Limited 2018

Multiplying and Dividing by 10, 100 and 1000 - Worksheet 2 - Easy

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

x 10 x 100	x 1000 ÷ 10	÷ 100 ÷ 1000
6.2 ÷ 10 = 0.62	18 x 10 = 180	47 ÷ 10 = 4.7
6.2 x 100 = 620	18 ÷ 100 = 0.18	47 ÷ 100 = 0.47
6.2 ÷ 100 = 0.062	18 ÷ 10 = 1.8	47 x 1000 = 47,000

classroomsecrets.com



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Easy ANSWERS

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

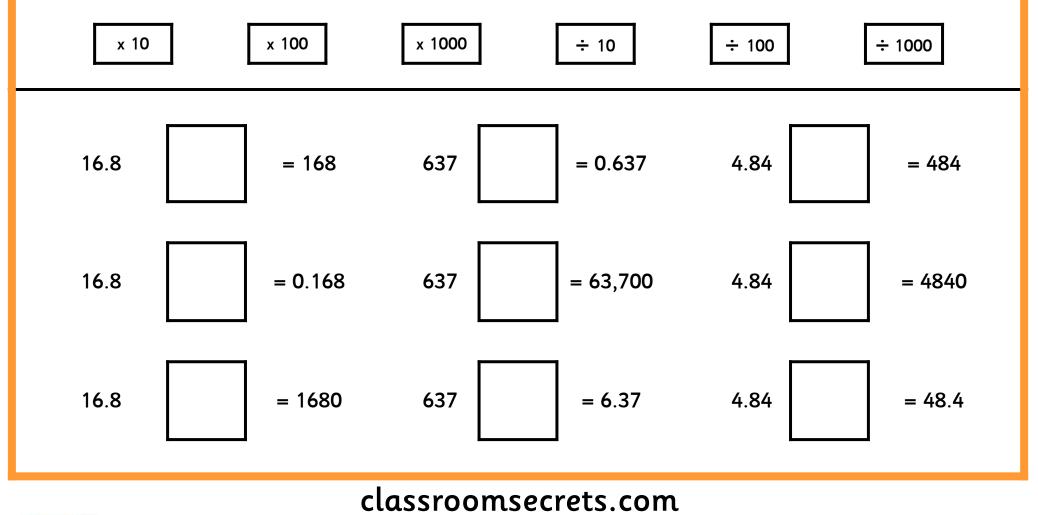
x 10	x 100	x 1000 ÷ 10	÷ 100 ÷ 1000
4.2	x 1000 = 4200	93 ÷ 100 = 0.93	286 ÷ 1000 = 0.286
4.2	÷ 10 = 0.42	93 x 100 = 9300	286 x 10 = 2860
4.2	x 100 = 420	93 x 10 = 930	286 ÷ 100 = 2.86
	С	lassroomsecrets.com	



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Easy ANSWERS

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

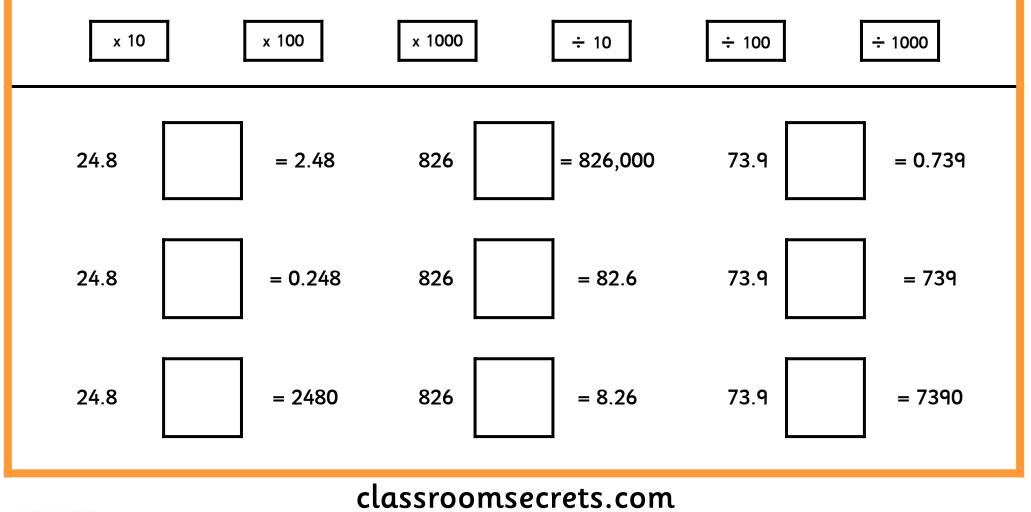




Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Tricky

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.





Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Tricky

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

x 10 x 100	x 1000 ÷ 10	÷ 100 ÷ 1000
16.8 x 10 = 168	637 ÷ 1000 = 0.637	4.84 x 100 = 484
16.8 ÷ 100 = 0.168	637 x 100 = 63,700	4.84 x 1000 = 4840
16.8 x 100 = 1680	637 ÷ 100 = 6.37	4.84 x 10 = 48.4

classroomsecrets.com



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Tricky ANSWERS

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

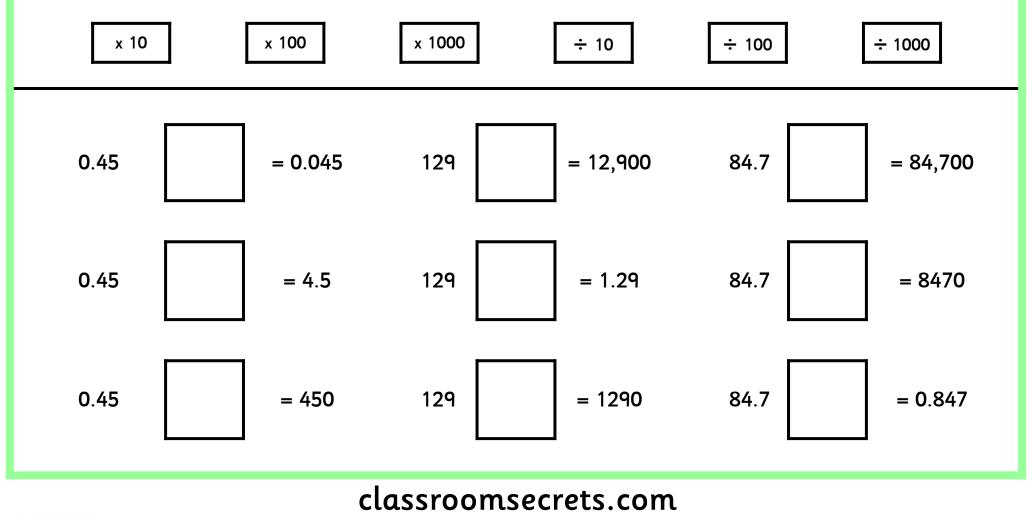
x 10 x	100 x 1000	÷ 10 ÷	100 ÷ 1000
24.8 ÷ 10	= 2.48 826 <mark>x 10</mark> 0	00 = 826,000 7	3.9 ÷ 100 = 0.739
24.8 ÷ 100 =	= 0.248 826 ÷ 10	0 = 82.6 7	3.9 x 10 = 739
24.8 x 100 =	= 2480 826 <mark>÷ 10</mark>)0 = 8.26 7	3.9 x 100 = 7390
	classroomse	ecrets.com	



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Tricky ANSWERS

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

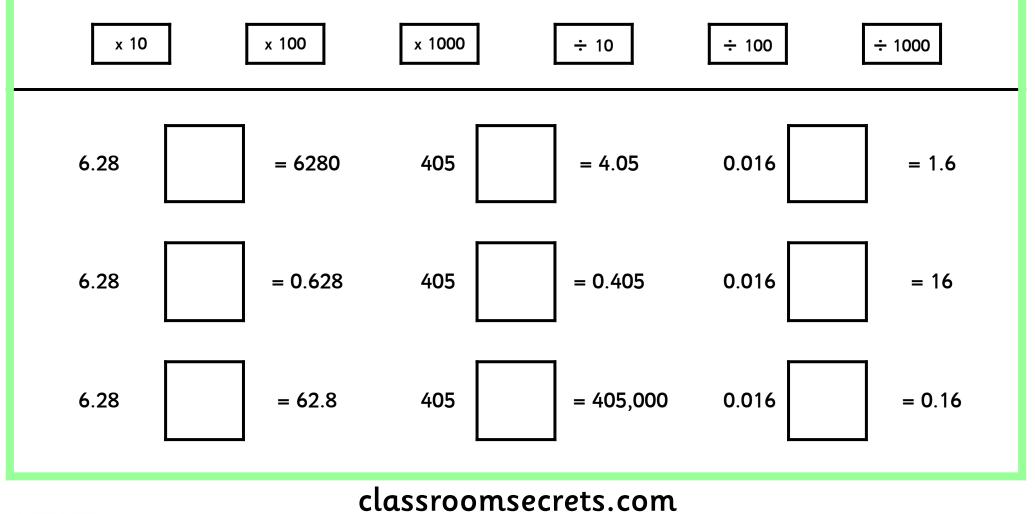


© Classroom Secrets Limited 2018

Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Expert

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.





Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Expert

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

x 10	0 x 100	x 1000 ÷ 10	÷ 100 ÷ 1000
0.45	÷ 10 = 0.045	129 x 100 = 12,900	84.7 x 1000 = 84,700
0.45	x 10 = 4.5	129 ÷ 100 = 1.29	84.7 x 100 = 8470
0.45	x 1000 = 450	129 x 10 = 1290	84.7 ÷ 100 = 0.847
	c	lassroomsecrets.com	



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 1 – Expert ANSWERS

Here are six cards.

Use a card to complete each calculation. You can use a card more than once.

x 10 x 100	x 1000 ÷ 10	÷ 100
6.28 x 1000 = 6280	405 ÷ 100 = 4.05	0.016 x 100 = 1.6
6.28 ÷ 10 = 0.628	405 ÷ 1000 = 0.405	0.016 x 1000 = 16
6.28 x 10 = 62.8	405 x 1000 = 405,000	0.016 x 10 = 0.16
	· ·	

classroomsecrets.com



Multiplying and Dividing by 10, 100 and 1000 – Worksheet 2 – Expert ANSWERS