To multiply and divide whole numbers and decimals by 10, 100 and 1000.

Use your **Place Value Grid** to help you to work out the answers to these calculations:

1) Multiplying and Dividing by 10.				
	a) 65.6 × 10 =	d) 5342 ÷ 10 =		
	b) 72.40 ÷ 10 =	e) 12 547 ÷ 10 =		
	c) 639.67 × 10 =			
2)	Multiplying and Dividing by 100.			
	a) 65.67 × 100 =	d) 118 ÷ 100 =		
	b) 46 ÷ 100 =	e) 14 523 ÷ 100 =		
	c) 209.46 × 100 =			
3)	Multiplying and Dividing by 1000.			
	a) 4.1 × 1000 =	d) 10 000 ÷ 1000 =		
	b) 230 ÷ 1000 =	e) 14 000 ÷ 1000 =		
	c) 199.02 × 1000 =			

4) 'Rock and roll' three dice to make a three-digit number. Multiply and divide your number by 10, 100 and 1000. Repeat this five times.

Number	× 10	÷ 10	× 100	÷ 100	× 1000	÷ 1000





To multiply and divide whole numbers and decimals by 10, 100 and 1000.

Work out the answers to these calculations:

1)		
	a) 65.9 × 10 =	d) 180 342 ÷ 10 =
	b) 1232.9 ÷ 10 =	e) 132 507 ÷ 10 =
	c) 6399.67 × 10 =	
2)	Multiplying and Dividing by 100.	
	a) 6738 × 100 =	d) 9534 ÷ 100 =
	b) 461.1 ÷ 100 =	e) 623 400 ÷ 100 =
	c) 2249.46 × 100 =	
3)	Multiplying and Dividing by 1000.	
	a) 4.13 × 1000 =	d) 100 000 ÷ 1000 =
	b) 3480 ÷ 1000 =	e) 2 345 000 ÷ 1000 =
	c) 2199.52 × 1000 =	

4) 'Rock and roll' four dice to make a four-digit number. Multiply and divide this by 10, 100 and 1000. Repeat this five times.

Number	× 10	÷ 10	× 100	÷ 100	× 1000	÷ 1000

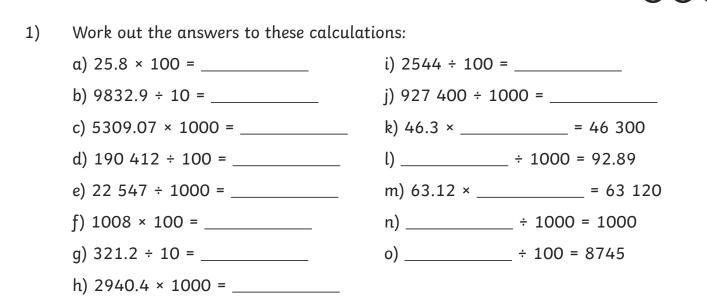






Decimal Disco

To multiply and divide whole numbers and decimals by 10, 100 and 1000.



2) 'Rock and roll' five dice to make a five-digit number. Multiply and divide this by 10, 100 and 1000. Repeat this five times.

Number	× 10	÷ 10	× 100	÷ 100	× 1000	÷ 1000





Decimal Disco Answers

1.	Multiplying and Dividing by 10.					
a	65.6 × 10 = 656	d	5342 ÷ 10 = 534.2			
b	72.40 ÷ 10 = 7.24	е	12 547 ÷ 10 = 1254.7			
с	639.67 × 10 = 6396.7					
2.	Multiplying and Dividing by 100.					
α	65.67 × 100 = 6567	d	118 ÷ 100 = I.18			
b	46 ÷ 100 = 0.46	е	14 523 ÷ 100 = 145.23			
с	209.46 × 100 = 20 946					
3.	Multiplying and Dividing by 1000.					
a	4.1 × 1000 = 4100	d	10 000 ÷ 1000 = 10			
b	230 ÷ 1000 = 0.23	е	14 000 ÷ 1000 = 14			
с	199.02 × 1000 = 199 020					
4.	'Rock and roll' three dice to make a three-digit number. Multiply and divide your number by 10, 100 and 1000. Repeat this five times.					
	Multiple answers possible.					





Decimal Disco Answers

1.	Multiplying and Dividing by 10.					
a	65.9 × 10 = 659	d	180 342 ÷ 10 = 18 034.2			
b	1232.9 ÷ 10 = 123.29	е	132 507 ÷ 10 = 13 250.7			
с	6399.67 × 10 = 63 996.7					
2.	Multiplying and Dividing by 100.					
a	6738 × 100 = 673 800	d	9534 ÷ 100 = 95.34			
b	461.1 ÷ 100 = 4.611	е	623 400 ÷ 100 = 6234			
с	2249.46 × 100 = 224 946					
3.	Multiplying and Dividing by 1000.					
α	4.13 × 1000 = 4130	d	100 000 ÷ 1000 = <i>100</i>			
b	3480 ÷ 1000 = 3.48	е	2 345 000 ÷ 1000 = 2345			
с	2199.52 × 1000 = 2 199 520					
4.	'Rock and roll' four dice to make a four-digit number. Multiply and divide this by 10, 100 and 1000. Repeat this five times.					
	Multiple answers possible.					







Decimal Disco Answers

1.	Work out the answers to these calculations:				
α	25.8 × 100 = 2580	i	2544 ÷ 100 = 25.44		
b	9832.9 ÷ 10 = 983.29	j	927 400 ÷ 1000 = 927.4		
с	5309.07 × 1000 = 5 309 070	k	46.3 × 1000 = 46 300		
d	190 412 ÷ 100 = 1904.12	l	92 890 ÷ 1000 = 92.89		
е	22 547 ÷ 1000 = 22.547	m	63.12 × <i>1000</i> = 63 120		
f	1008 × 100 = 100 800	n	<i>1 000 000</i> ÷ 1000 = 1000		
g	321.2 ÷ 10 = 32.12	0	8 74 500 ÷ 100 = 8745		
h	2940.4 × 1000 = 2 940 400				
2.	'Rock and roll' five dice to make a five-digit number. Multiply and divide this by 10, 100 and 1000. Repeat this five times.				
	Multiple answers possible.				



