

Halving to Divide by 4

LO: I can use halving to divide by 4, 8 and 16

Halve the starting number each time to divide the starting number by 4.

Starting Number	Halve ($\div 2$)	Halve again ($\div 4$)
84		
24		
460		
364		
252		
620		
724		
1276		
3628		
8312		
6832		
7352		
1088		
5276		

Fill in the missing numbers in the calculations below:

$$484 \xrightarrow{\text{halve}} \boxed{} \xrightarrow{\text{halve}} 121 = 484 \div 4 = \boxed{}$$

$$\boxed{} \xrightarrow{\text{halve}} 84 \xrightarrow{\text{halve}} 42 = \boxed{} \div 4 = 42$$

Halving to Divide by 8

LO: I can use halving to divide by 4, 8 and 16

Halve the starting number each time to divide the starting number by 8.

Starting Number	Halve ($\div 2$)	Halve again ($\div 4$)	Halve again ($\div 8$)
344			
512			
392			
4288			
1952			
1216			
9296			
2288			
8288			
5264			
7104			
1632			
7312			
8160			

Fill in the missing numbers in the calculations below:

$$864 \xrightarrow{\text{halve}} \boxed{} \xrightarrow{\text{halve}} 216 = 864 \div 8 = \boxed{}$$

$$\boxed{} \xrightarrow{\text{halve}} 264 \xrightarrow{\text{halve}} \boxed{} \xrightarrow{\text{halve}} 66 = \boxed{} \div 8 = 66$$

Halving to Divide by 16

LO: I can use halving to divide by 4, 8 and 16

Halve the starting number each time to divide the starting number by 16.

Starting Number	Halve ($\div 2$)	Halve again ($\div 4$)	Halve again ($\div 8$)	Halve again ($\div 16$)
848				
320				
3392				
3376				
3952				
9744				
6528				
2016				
1632				
8800				
6464				
5920				
5328				
2944				

Fill in the missing numbers in the calculations below:

$$2496 \xrightarrow{\text{halve}} \boxed{} \xrightarrow{\text{halve}} 624 \xrightarrow{\text{halve}} \boxed{} \xrightarrow{\text{halve}} \boxed{} \quad 2496 \div 16 = \boxed{}$$

$$\boxed{} \xrightarrow{\text{halve}} 2528 \xrightarrow{\text{halve}} \boxed{} \xrightarrow{\text{halve}} 632 \xrightarrow{\text{halve}} \boxed{} \quad \boxed{} \div 16 = 316$$

Halving to Divide by 4 Answers

LO: I can use halving to divide by 4, 8 and 16

Halve the starting number each time to divide the starting number by 4.

Starting Number	Halve ($\div 2$)	Halve again ($\div 4$)
84	42	21
24	12	6
460	230	115
364	182	91
252	126	63
620	310	155
724	362	181
1276	638	319
3628	1814	907
8312	4156	2078
6832	3416	1708
7352	3676	1838
1088	544	272
5276	2638	1319

Fill in the missing numbers in the calculations below:

$$484 \xrightarrow{\text{halve}} \boxed{242} \xrightarrow{\text{halve}} 121 = 484 \div 4 = \boxed{121}$$

$$\boxed{168} \xrightarrow{\text{halve}} 84 \xrightarrow{\text{halve}} 42 = \boxed{168} \div 4 = 42$$

Halving to Divide by 8

LO: I can use halving to divide by 4, 8 and 16

Halve the starting number each time to divide the starting number by 8.

Starting Number	Halve ($\div 2$)	Halve again ($\div 4$)	Halve again ($\div 8$)
344	172	86	43
512	256	128	64
392	196	98	49
4288	2144	1072	536
1952	976	488	244
1216	608	304	152
9296	4648	2324	1162
2288	1144	572	286
8288	4144	2072	1036
5264	2632	1316	658
7104	3552	1776	888
1632	816	408	204
7312	3656	1828	914
8160	4080	2040	1020

Fill in the missing numbers in the calculations below:

$$864 \xrightarrow{\text{halve}} \boxed{432} \xrightarrow{\text{halve}} 216 \xrightarrow{\text{halve}} \boxed{108} = 864 \div 8 = \boxed{108}$$

$$\boxed{528} \xrightarrow{\text{halve}} 264 \xrightarrow{\text{halve}} \boxed{132} \xrightarrow{\text{halve}} 66 = \boxed{528} \div 8 = 66$$

Halving to Divide by 16

LO: I can use halving to divide by 4, 8 and 16

Halve the starting number each time to divide the starting number by 16.

Starting Number	Halve ($\div 2$)	Halve again ($\div 4$)	Halve again ($\div 8$)	Halve again ($\div 16$)
848	424	212	106	53
320	160	80	40	20
3392	1696	848	424	212
3376	1688	844	422	211
3952	1976	988	494	247
9744	4872	2436	1218	609
6528	3264	1632	816	408
2016	1008	504	252	126
1632	816	408	204	102
8800	4400	2200	1100	550
6464	3232	1616	808	404
5920	2960	1480	740	370
5328	2664	1332	666	333
2944	1472	736	368	184

Fill in the missing numbers in the calculations below:

$$2496 \xrightarrow{\text{halve}} \boxed{1248} \xrightarrow{\text{halve}} 624 \xrightarrow{\text{halve}} \boxed{312} \xrightarrow{\text{halve}} \boxed{156} \quad 2496 \div 16 = \boxed{156}$$

$$\boxed{5056} \xrightarrow{\text{halve}} 2528 \xrightarrow{\text{halve}} \boxed{1264} \xrightarrow{\text{halve}} 632 \xrightarrow{\text{halve}} \boxed{316} \quad \boxed{5056} \div 16 = 316$$