



LO: To use the 9 times tables to solve division problems.

Challenge 1

1a. Complete the calculations below.

A. $9 \times 3 = \square$ 


B. $\square = 9 \times 5$ 

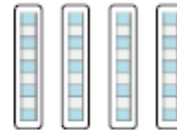
C. $18 \div 9 = \square$ 

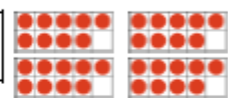


VF

1b. Complete the calculations below.

A. $\square = 9 \times 2$ 

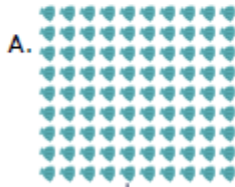
B. $\square = 36 \div 9$ 

C. $4 \times 9 = \square$ 



VF

2a. Solve the calculations below and draw lines to the answers.



$\div 9 =$

$\div 9 =$



VF

2b. Solve the calculations below and draw lines to the answers.



$\div 9 =$


$\div 9 =$



VF

3a. Put a tick (✓) or cross (x) in each box to show if each related fact is correct.

A.  $360 \div 9 = 50$

B.  $9 \times 30 = 280$


C.  $180 \div 2 = 90$

D.  $5 \times 90 = 450$



VF

3b. Put a tick (✓) or cross (x) in each box to show if each related fact is correct.

A.  $90 \times 1 = 90$

B.  $360 \div 4 = 80$

C.  $90 = 270 \div 3$

D.  $3 \times 90 = 260$



VF

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Challenge 2

4a. Use the numbers below to create four different calculations. Numbers may be used more than once.

11	60	$360 \div \square = \square$
4	9	$\square \times 9 = \square$
2	12	$99 = \square \times \square$
63	90	$\square \times \square = 540$



PS

4b. Use the numbers below to create four different calculations. Numbers may be used more than once.

60	90	$8 \times \square = \square$
630	50	$900 \div \square = \square$
270	9	$\square \div 70 = \square$
4	720	$810 = \square \times \square$



PS

5a. Four children take part in a reading contest at school. For each whole book they read, they receive 90 points.

	Total number of points
Lucinda	810
Adam	270
Ricardo	180
Shania	990

How many whole books did each child read?



PS

5b. Four children take part in a spelling contest. For each 9-letter word they spell correctly, they receive 90 tokens.

	Total number of tokens
Ronaldo	360
Maya	450
Aaron	630
Fliss	720

How many 9-letter words did each child spell correctly?



PS

6a. Emily says,



I'm thinking of a number. When it is shared into nine equal groups, there will be more than 51 but less than 69 in each group.

A.

450

B.

540

C.

405

What is Emily's number? Prove it.



R

6b. Charlie says,



I'm thinking of a number. It is exactly divisible by 9 and it has double the amount of hundreds than tens.

A.

840

B.

720

C.

630

What is Charlie's number? Prove it.



R

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Challenge 3

7a. Complete the calculations below.

A. $720 = \square \times 9 \times \square$

B. $180 \div \square = 9$

C. $4 \times 9 \times 100 = \square$

D. $\square \div 70 = 9$



VF

7b. Complete the calculations below.

A. $\square \div 9 = 12$

B. $9 \times 6 \times \square = 0$

C. $110 = \square \div 9$

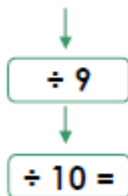
D. $\square \times 9 \times \square = 450$



VF

8a. Solve the two-step calculations below and draw lines to the answers.

A. **630**



70

5

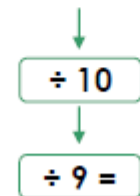
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50



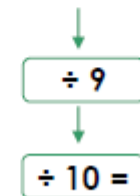
VF

B. **450**



8b. Solve the two-step calculations below and draw lines to the answers.

A. **720**



110

80

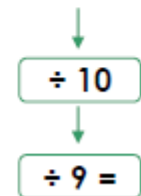
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8



VF

B. **990**



9a. Put a tick (✓) or cross (x) in each box to show which facts below are correct.

A. $720 \div 9 = 80$

B. $810 = 9 \times 9 \times 11$

C. $9 \times 3 \times 10 = 390$

D. $50 = 450 \div 9$



E. $9 \times 8 \times 100 = 7,200$

VF

9b. Put a tick (✓) or cross (x) in each box to show which facts below are correct.

A. $7 \times 9 \times 100 = 106$

B. $360 = 10 \times 4 \times 9$

C. $630 \div 90 = 70$

D. $810 \div 9 \div 9 = 1$



E. $70 \times 90 = 6,300$

VF

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Extension

7a. Use the numbers below to create three different calculations. Numbers may be used more than once.

$$\square = \square \times \square \times \square$$

$$\square \div \square = \square$$

$$\square \times \square \times \square = \square$$

70 450 5 9 108 3 630 270 10



PS

7b. Use the numbers below to create three different calculations. Numbers may be used more than once.

$$\square \div \square = \square$$

$$\square \times \square \times \square = \square$$

$$\square \div \square \div \square = \square$$

8 540 720 6 110 990 2 9 10



PS

8a. Five children take part in a quiz at school. For each question they answer correctly, they receive 90 points.

	No. of correct questions in round 1	No. of correct questions in round 2	Overall score
Max	5	0	
Gina	1	5	
Jess	4		810
Phil	5	2	
Saira	7		990

Complete the table above.



PS

8b. Five children take part in a tennis tournament. For each serve they hit correctly, they receive 90 points.

	No. of correct serves in 1 st game	No. of correct serves in 2 nd game	Overall score
Stan	2	7	
Cara		1	180
Olaf	4		720
Elle	0	6	
Trev		2	270

Complete the table above.



PS