

Name: _____

3rd grade APTT Winter/Spring

Date: _____

Solve these problems and tell how you solved them.

Problem	Solution	I just knew	I can only use one strategy	I can use two strategies	Strategy	Strategy
$8 \times 7 = \square$		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
$\square = 30 \div 6$		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

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Problem	Solution	I just knew	I can only use one strategy	I can use two strategies	Strategy	Strategy
$4 \times \square = 40$		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
$\square = 6 \times 3$		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

State whether the problems below are true or false and explain your answer.

Problem	True or False?	Explain
<p>Kari solves for 8×9 by multiplying 8×10 then subtracting 8 from the product. She says this strategy of multiplying the other factor by 10 and subtracting the extra group from the product works for multiplying any number by 9.</p> <p>Here's her work for solving 8×9.</p> $8 \times 10 = 80$ $80 - 8 = 72$ $8 \times 9 = 72$	True or False	
<p>Justin says he can solve any 7s fact problem by using a 5 and a 2 fact. For example, 7×6 he thinks of this way:</p> $5 \times 6 = 30$ $2 \times 6 = 12$ $30 + 12 = 42$ $7 \times 6 = 42$	True or False	

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Problems 1-4

Problem	Accurate (+1)	Used one correct strategy (+1) No strategy (+0)	Used two correct strategies (+2)	Points total for problem (out of 3)
1	(30)			
2	(40)			
3	(10)			
4	(16)			

Total: _____/12 points

TRUE/FALSE Questions

Problem	Accurate (+1)	Explanation makes sense and used reasoning (+2) Explanation just stated the correct products (+1) No/incorrect explanation (+0)	Points total for problem (out of 3)
1	(False)		
2	(True)		

Total: _____/6 points

Word Problems

Problem	Accurate (+1)	Problem 1 & 2: Work shown correctly (+1) Problem 2: Includes more than 1 correct equation (additional +1)	Explanation makes sense and used reasoning (+2) Explanation just stated the process with no reasoning (+1) No/incorrect explanation (+0)	Points total for problem
1	(15)			(out of 4 points)
2	(6)			(out of 5 points)

Total: _____/9 points

Points total _____ out of 27