

Island Numeracy Assessment Grade 7+: Computational Fluency Collaborative Task

Credit to Greg Tang (gregtangmath.com/games)

Kakooma Integers

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Problem:

Puzzles? In each 9-number square, find the number that is the sum of 2 other numbers. Use all 9 sums to create 1 final puzzle and solve.

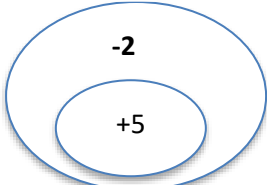
-4	7	5	20	21	4	18	-16	-23
-21	18	21	-25	-15	8	-24	4	-15
-6	-1	-18	-6	-5	7	0	5	-6
4	1	0	15	11	-25	-15	-21	13
16	-14	-21	14	-6	-18	18	7	1
-11	2	-6	-16	25	13	0	-9	-24
24	6	-6	-8	25	22	19	-10	-21
12	8	-17	-25	20	2	-23	-15	21
-8	-1	22	8	-9	-24	17	8	-12

a	b	c
-1	-5	-6
d	e	f
2	25	-24
g	h	i
6	22	15

Final answer:

-6

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Item	Assessment Question	Comments
1	The temperature rises 6C, then falls 9C. Write a number sentence to represent the change in temperature.	$(+6) + (-9) = (-3)$ $(+6) - (+9) = (-3)$
2	Pencils cost 45 cents each. The price is reduced by 20%. How many pencils can be purchased with \$4.00.	11 pencils
3	Students are selling hotdogs for \$2.00 each. Each hot dog costs \$0.52 to make. If they sell 87 hot dogs, about how much will their profit be? Explain your estimate.	Answers will vary. Exact answer based on information provided is \$128.76. Estimates should be reasonable based on explanation.
4	In class, you and a friend are explaining how you added 4.26 to 5.761 mentally. Describe two possible strategies that you and your friend use.	10.021 Explanations will vary.
5	Write the first three common multiples of 3, 4, and 6. Circle the lowest common multiple.	12, 24, 36 LCM = 12
6	<p>You are playing a new game. You toss two bean bags inside the hoola hoops and find the sum of the integers.</p> <p>Determine at least 4 different scores.</p> 	$5 + 5 = 10$ $5 + (-2) = 3$ $5 + (-5) = 0$ $(-2) + (-2) = (-4)$ $(-5) + (-5) = (-10)$

7	<p>Your friend subtracted 0.467 from 7.52 and got the difference 0.285. You compared your answer with a partner and discovered his answer was incorrect. What advice would help your partner? What is the correct answer?</p>	<p>The numbers were not lined up properly according to place value.</p> <p>7.053</p>				
8	<p>List all the possible combinations of integers that have a product of 12.</p>	<p>-1 x -12 1 x 12 -2 x -6 2 x 6 -3 x -4 3 x 4</p>				
9	<p>Sort the numbers between 50 and 60 into prime and composite numbers.</p> <table border="1" data-bbox="457 726 971 1115" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="padding: 5px;">Prime</th> <th style="padding: 5px;">Composite</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td style="height: 150px;"></td> </tr> </tbody> </table>	Prime	Composite			<p>Prime</p> <p>53 and 59</p> <p>Composite</p> <p>50 52 54 56 58 60</p>
Prime	Composite					
10	<p>What is the product of 2.47 and 5.4?</p>	<p>13.338</p>				

Island Numeracy Network Assessment
Grade 7+: Computational Fluency
Performance Task

Kaden, Talia and you solve this problem:

$$14 \times (2.7 \div 0.3) - 5.32 \times 2.5$$

Your group can only present **one** answer to the class.

- Kaden's answer is 112.7
- Talia's answer is 301.70
- Your answer is 128.8



1. Who has the correct answer? How do you know?

Kaden's answer is correct

2. Explain and show how the others got their answers. Where did they go wrong?

Talia completed the brackets, then multiplied by 14 to get 126. She then made the mistake of subtracting 5.32 and then multiplying by 2.5

I completed the brackets then subtracted 5.25. Then I multiplied by 14 and
2.5