

Special quadrilaterals. Inverse operations.

Math 2 Classwork 13

TEST REVIEW





Mind reading game.

- 1. Think of any number from 1 to 50.
- 2. Add 25 to it._____
- 3. Subtract 20 from a product._____
- 4. Subtract 6 from a product_____
- 5. Add 50 to a product_____
- 6. Subtract 14 from a product_____.

What did you end up with?

Tell me the result and I'll tell you the number you thought of.

REVIEW

How do we work with parentheses?

Removing parentheses. a + (b + c) = a + b + ca + (b - c) = a + b - c

a + (b - c) = a + b - ca - (b - c) = a - b + c

9	Number the order of operative $m + (n - k)$	ations in the expressions. m + (n - k - t) + k
	(m + n) - k	m+n-(k-t+k)
10	Open parentheses and calculate:	
	100 - (50 - 38) - (25 - 12) =	
	(49 + 11 - 16) - (29 - 26) =	
	(54 - 39) + (46 - 11) - (16 + 9) =	
11	Calculate:	
	6dm 5cm – 4dm 9cm +48cm =	
	77cm – 29 cm + 1dm 9cm =	
	10m - 4m 7dm - 50dm =	
4		2



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Special quadrilaterals. Inverse operations.

Answer the questions and explain your answers:

- a) Can square be a rectangle?
- b) Can square be a parallelogram?
- c) Can square be a rhombus?

Did you know ...

Quadrilaterals were invented by the Ancient Greeks. It is said that Pythagoras was the first to draw one. In those days quadrilaterals had three sides and their properties were only dimly understood. It was the genius of the Romans to add a fourth side and they were the first to make a list of the different kinds of quadrilaterals, but it wasn't until 1813 that an English mathematician, J.P. Smith, discovered the trapezium. Quadrilaterals remain a rich source of investigations for researchers, the best-known unsolved problem being to find a general formula for the number of interior angles.

In the quadrilateral family, there were three kids: parallelogram, trapezoid, and kite. All the kids in this family have the same traits as the parents. Notice, that parallelograms, trapezoids, and kites all have four sides. Their interior angles all sum to 360°.



Parallelogram got married and had two kids: rhombus and rectangle. Since rhombus and rectangle are parallelogram's kids, they have all the same traits. Their opposite sides are parallel. They also have the same properties of their grandfather, quadrilateral.

All right y'all, this is where things kind of get sketchy. So, rhombus and rectangle... Well, they had a kid, named square. Trapezoid only had one child. He named his son, isosceles trapezoid, after him. Isosceles trapezoid has a few extra properties.

Kite didn't have any children.





