

Mathematical processes



Name Class_____ Date____



If a triangle with sides of 3 and 4 and a hypotenuse of 5 is a right triangle, a triangle with sides of 12 and 16 and a hypotenuse of 20 is also a right triangle.

Why is this correct?

A 12-16-20 are multiples of 3-4-5.

- **B** 12 and 16 = 28
- $C 20^2 = 400$
- **D** A 12-16-20 triangle is not a right triangle.



Why is a rhombus not a square?

- A A square has 2 pairs of parallel sides.
- B A square has 4 right angles.
- C A rhombus has 2 pairs of parallel sides.
- D A square has 4 equal sides.



Taquisha says the slope of the line shown is $\frac{4}{2}$ or 2. Why is she **not** correct?

A The line goes through the origin.



Anne and Cassandra run in a 26-mile marathon. Anne finishes in 10 hours 38 minutes. Cassandra finishes in 9 hours 57 minutes. Anne ran faster.





PREVIEW



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True or false?

- A true
- **B** false

- A \$2 B \$4
- C \$4.80
- **D** \$48



At the Shop-a-Lot store, there is a sale and everything is 25% off the original price. If a sweater originally costs \$19.99, what is the sale price?

- A \$4.00
- **B** \$5.00
- C \$14.99
- D \$15.99

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Jesse has some coins in his pocket that add up to \$1.65. He has three times as many dimes than quarters. How many dimes and quarters does he have?

- A 3 dimes, 9 quarters
- B 9 dimes, 3 quarters
- C 2 dimes, 6 quarters
- D 6 dimes, 2 quarters



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Class Name Date If a triangle with sides of 3 and 4 and a Why is a rhombus not a square? hypotenuse of 5 is a right triangle, a triangle with sides of 12 and 16 and a hypotenuse A A square has 2 pairs of parallel sides. of 20 is also a right triangle. B A square has 4 right angles. Why is this correct? A B C A rhombus has 2 pairs of parallel sides. A 12-16-20 are multiples of 3-4-5. D A square has 4 equal sides. **B** 12 and 16 = 28 $C 20^2 = 400$ D A 12-16-20 triangle is not a right triangle. 3 Taquisha says the slope of the line shown Anne and Cassandra run in a 26-mile marathon. Anne finishes in 10 hours 38 is 4 or 2. Why is she not correct? minutes. Cassandra finishes in 9 hours 57 minutes. Anne ran faster. A The line goes through the origin. (B)5 D **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet B True or false? C \$4.80 A \$2 **B** \$4 **D** \$48 A true **B** false 9 At the Shop-a-Lot store, there is a sale 10 Jesse has some coins in his pocket that add up to \$1.65. He has three times as and everything is 25% off the original many dimes than quarters. How many price. If a sweater originally costs \$19.99, what is the sale price? dimes and quarters does he have? B A 3 dimes, 9 quarters A \$4.00 **B** \$5.00 **B** 9 dimes, 3 quarters C \$14.99 C 2 dimes, 6 quarters D \$15.99 D 6 dimes, 2 quarters