



Name _____ Class _____ Date _____

1 Renee is solving the **expression**, $6x^2 + 2(x - 4) - 12$ when $x = 8$. She decides to solve $2(x - 4)$ first. This strategy will work when solving the problem.

True or false?

- A true
- B false

3 Amanda is trying to figure out if $\sqrt{8}$ is **rational** or **irrational**. She finds out that the $\sqrt{8}$ is equal to **2.82847125**. What strategy would help her?

- A guess and check
- B use an equation

2 Zackary needs to figure out which **ordered pair** will make the equation, $2x - 7 = y$, true. Which strategy will **not** help him find the answer?

- A guessing and checking
- B acting it out
- C drawing a graph
- D making a table of values

4 Dale is deciding if a triangle with the sides of **15** and **36** and a hypotenuse of **39** is a **right triangle**. What strategy would be the best for him to use?

- A act it out
- B use a formula

5



PREVIEW

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7

- A $13 + 3 = 16$
- B $8 + 4 = 12$
- C $2^2 = 4$
- D 16 should be $\div 4$ first

- A $12 \div -6 = -2$
- B The sign, $<$, should be $>$.
- C $48 \div -6 = -8$
- D y must be alone

9

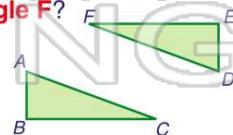
A test question asks with which **transformation** does a figure's **size or shape change**. Karl knows the transformations are reflection, rotation, dilation, and translation. He reasons that the answer is **dilation**. Why is he correct?

- A A reflection makes a mirror image.
- B A rotation turns a figure.
- C A dilation shrinks or enlarges a figure.
- D A translation shifts a figure.

10

The two triangles shown are **similar**. Why is **angle A \neq angle F**?

- A $\angle A$ and $\angle F$ are in the same spot.
- B $\angle B = \angle E$
- C BC is congruent to EF.
- D Similar triangles have certain equal angle measures.





ANSWER KEY

Renee is solving the **expression**, $6x^2 + 2(x - 4) - 12$ when $x = 8$. She decides to solve $2(x - 4)$ first. This strategy will work when solving the problem.

True or false?

- A true
- B false

(a)

Zackary needs to figure out which **ordered pair** will make the equation, $2x - 7 = y$, true. Which strategy will **not** help him find the answer?

- A guessing and checking
- B acting it out
- C drawing a graph
- D making a table of values

(b)

Amanda is trying to figure out if $\sqrt{8}$ is **rational** or **irrational**. She finds out that the $\sqrt{8}$ is equal to **2.82847125**. What strategy would help her?

- A guess and check
- B use an equation
- C act out the situation
- D

(d)

Dale is deciding if a triangle with the sides of **15** and **36** and a hypotenuse of **39** is a **right triangle**. What strategy would be the best for him to use?

- A act it out
- B use a formula
- C draw a diagram
- D

(b)



PREVIEW

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- A $6 + 4 = 12$
- B $2^2 = 4$
- C 16 should be $\div 4$ first
- D

- B The sign, $<$, should be $>$.
- C $48 \div -6 = -8$
- D y must be alone

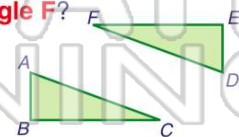
A test question asks with which **transformation** does a figure's **size or shape change**. Karl knows the transformations are reflection, rotation, dilation, and translation. He reasons that the answer is **dilation**. Why is he correct?

- A A reflection makes a mirror image.
- B A rotation turns a figure.
- C A dilation shrinks or enlarges a figure.
- D A translation shifts a figure.

(c)

The two triangles shown are **similar**. Why is **angle A = angle F**?

- A $\angle A$ and $\angle F$ are in the same spot.
- B $\angle B = \angle E$
- C BC is congruent to EF .
- D Similar triangles have certain equal angle measures.



(d)