

$2x + 12$ represents the cost to rent x movies a month. Makayla now has \$10. How many more dollars does she need next month?

$$\begin{array}{r} 26 \\ -10 \\ \hline 16 \end{array}$$



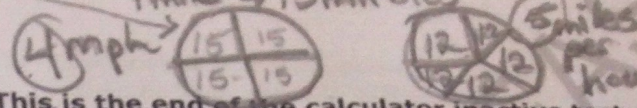
The larger leg is 3 cm longer than its smaller leg. The perimeter is 48 cm. How many centimeters long is the smaller leg?

$$\begin{aligned} x^2 + (x+3)^2 &= (x+6)^2 \\ x^2 + x^2 + 6x + 9 &= x^2 + 12x + 36 \\ 2x^2 + 6x + 9 &= x^2 + 12x + 36 \end{aligned}$$

11 Go to the next page.

$$\begin{array}{r} -x^2 \\ \hline x^2 + 6x + 9 = 12x + 36 \\ -12x \quad -12x \\ \hline x^2 - 6x + 9 = 36 \\ -36 \quad -36 \\ \hline \end{array}$$

15 Alex walked 1 mile in 15 minutes. Sally walked 3 miles per hour, how much faster did Sally walk than Alex?
(Note: 1 mile = 1,760 yards) 1 mile \rightarrow 15 minutes



This is the end of the calculator inactive test

Directions:

1. Look back over your answers for the calculator inactive test. You will not be able to go back and work on these questions given a calculator.
2. Raise your hand to let your teacher know you are ready for the calculator active test questions.
3. Do not begin work on the calculator active test questions until the teacher has given you a calculator.

← get this side equal to 0

$$\begin{aligned} x^2 - 6x - 27 &= 0 \text{ factored} \\ (x-9)(x+3) &= 0 \\ x=9 \quad x=-3 & \text{ scan for negative} \end{aligned}$$



14 Katie and Jennifer are playing a game.

- Katie and Jennifer each started with 100 points.
- At the end of each turn, Katie's points doubled.
- At the end of each turn, Jennifer's points increased by 200.

At the start of which turn will Katie first have more points than Jennifer?

Katie	100	-	Jen	100
	200			300
	400			500
	800			700

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15 Alex walked 1 mile in 15 minutes. Sally walked 3,520 yards in 24 minutes. In miles per hour, how much faster did Sally walk than Alex?

(Note: 1 mile = 1,760 yards)

1 mile → 15 minutes

1 mile → 15 minutes

1760 → 1 mile 12 min
 + 1760 → 1 mile 12 min
 3520 → 24 min



5 mph - 4 mph = 1 mph

This is the end of the calculator inactive test questions.

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get this side to 0



$x^2 - 6x - 27 = 0$ factor