

ACT MATH PRACTICE PAPER

If Dave drove one-third of the distance of his trip on the first day, and 60 miles on the second day, he figured out that he still had $\frac{1}{2}$ of the trip to drive. What was the total length, in miles, of his trip?

- 360
- 180
- 120
- 60
- 90

If a geometric sequence starts with a first term of 2 and grows exponentially by a factor of 3, what is the sum of the 4th and 5th terms?

- 216
- 162
- 108
- 54
- 27

Three vases each contain 12 flowers. Some flowers are to be removed from one vase and placed in another vase to make the ratio of flowers in the three vases 3:2:1. What is the least number of flowers that must be moved to accomplish this?

- 18
- 12
- 4
- 8
- 6

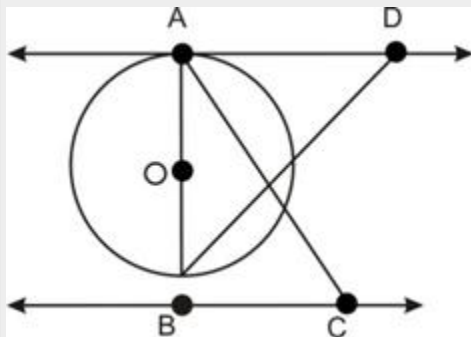
Two circles both of radii 6 have exactly one point in common. If A is a point on one circle and B is a point on the other circle, what is the maximum possible length for the line segment AB?

- 12
- 15
- 18
- 20
- 24

Jamal ran a distance of 360 feet. Lonnie ran a distance of 30 yards. What is the ratio of the distance Jamal ran to the distance Lonnie ran?

- 4:1
- 5:1
- 6:1
- 12:1
- 36:1

In the figure below, $AD \parallel BC$. $m\angle AC = 13$. $m\angle BC = 5$. If $m\angle BD = 15$, what is $m\angle AD$?



- 8
- 9
- 10
- 11
- 12

If $b-a = c-b = d-c$, which of the following is equal to $d-b$?

- $d + a$
- $b + a$
- $c + a$
- $c - a$
- $b - c$

Please answer the following math question:

Which of the following is equivalent to $x^2 - 1 \geq 8$?

- $x \geq 3$
- $x \geq 9$
- $x \geq -3$ or $x \leq 3$
- $-3 \leq x \leq 3$
- $x \leq -3$ or $x \geq 3$

Please answer the following math question:

If $x \neq 2y$, then

$$\frac{x-2y}{2y-x} + \frac{2y-x}{x-2y} =$$

- $2(x-2y)$
- $2y-x$
- 1
- 0
- -2

Please answer the following math question:

Which of the following is equivalent to $x^2 < -2x$?

- x
- x
- x x
- 2 0
- 2 -1