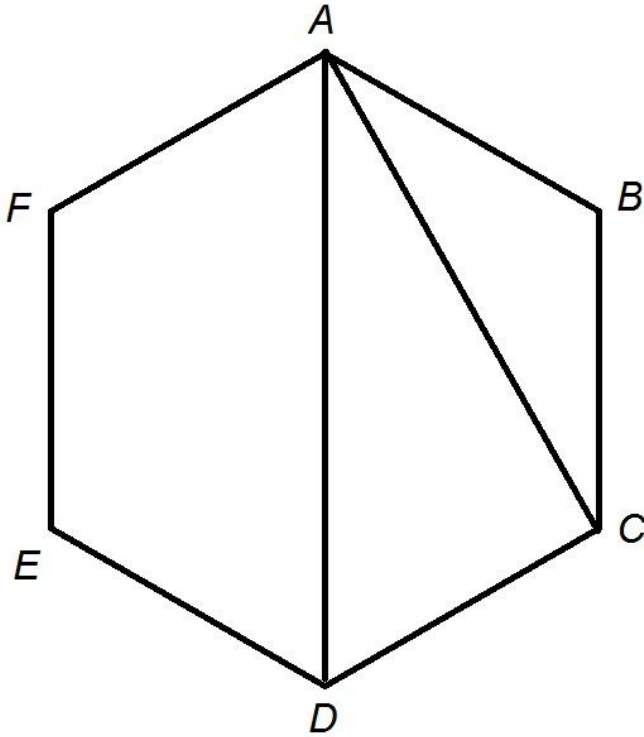
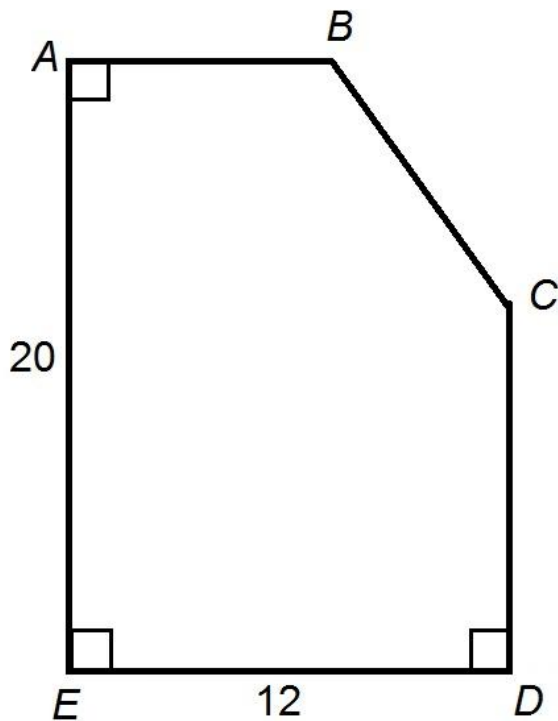


GMAT QUANT PRACTICE PAPER



1. The hexagon in the above diagram is regular. If AB has length 10, which of the following expressions is equal to the length of AC ?

- 20
- $10\sqrt{3}$
- $10\sqrt{2}$
- $5\sqrt{3}$
- $10\sqrt{6}$



Note: Figure NOT drawn to scale

2. Refer to the above figure. Give the length of BC -----.

Statement 1: $AB=7$

Statement 2: $CD=12$

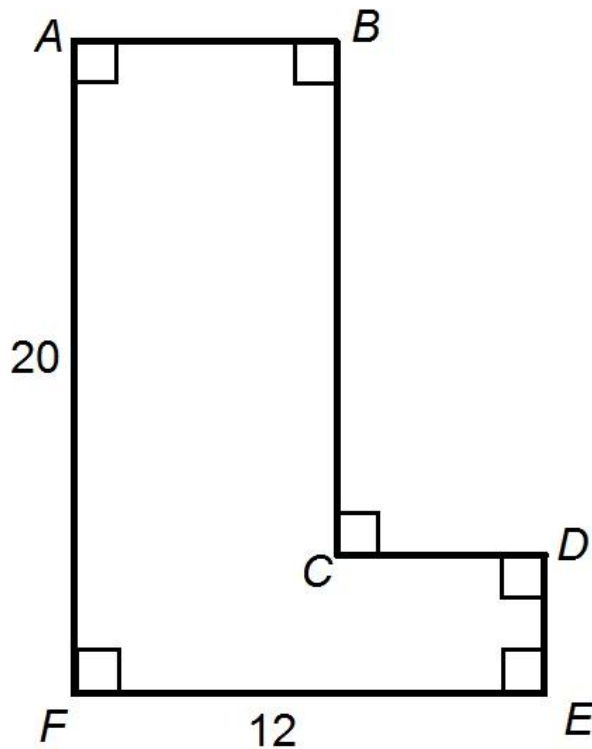
Statement 1 ALONE is sufficient to answer the question, but Statement 2 ALONE is NOT sufficient to answer the question.

EITHER statement ALONE is sufficient to answer the question.

Statement 2 ALONE is sufficient to answer the question, but Statement 1 ALONE is NOT sufficient to answer the question.

BOTH statements TOGETHER are insufficient to answer the question.

BOTH statements TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient to answer the question.



Note: Figure NOT drawn to scale.

3. Refer to the above figure. What is the length of CD ----- ?

Statement 1: $DE=4$

Statement 2: $AB=7$

Statement 2 ALONE is sufficient to answer the question, but Statement 1 ALONE is NOT sufficient to answer the question.

Statement 1 ALONE is sufficient to answer the question, but Statement 2 ALONE is NOT sufficient to answer the question.

BOTH statements TOGETHER are insufficient to answer the question.

BOTH statements TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient to answer the question.

EITHER statement ALONE is sufficient to answer the question.

4. Are the diagonals of Quadrilateral QUAD perpendicular?

(a) $QU=UA$

(b) $QD=DA$

BOTH statements TOGETHER are insufficient to answer the question.

Statement 2 ALONE is sufficient to answer the question, but Statement 1 ALONE is NOT sufficient to answer the question.

Statement 1 ALONE is sufficient to answer the question, but Statement 2 ALONE is NOT sufficient to answer the question.

BOTH statements TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient to answer the question.

EITHER statement ALONE is sufficient to answer the question.

5. Given Parallelogram ABCD .

True or false: $AC \perp BD$

Statement 1: $AB=BC$

Statement 2: $m\angle ABC=45^\circ$

BOTH statements TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient to answer the question.

BOTH statements TOGETHER are insufficient to answer the question.

Statement 1 ALONE is sufficient to answer the question, but Statement 2 ALONE is NOT sufficient to answer the question.

Statement 2 ALONE is sufficient to answer the question, but Statement 1 ALONE is NOT sufficient to answer the question.

EITHER statement ALONE is sufficient to answer the question.

6. Consider parallelogram $TGIF$.

I) The perimeter of $TGIF$ is 57 light years.

II) Side TG is 13 light years and is equivalent to side IF .

Find the length of side GI .

Both statements are needed to answer the question.

Statement I is sufficient to answer the question, but statement II is not sufficient to answer the question.

Statement II is sufficient to answer the question, but statement I is not sufficient to answer the question.

Neither statement is sufficient to answer the question. More information is needed.

Either statement is sufficient to answer the question.

7. Consider isosceles trapezoid $MNOP$.

I) $MNOP$ has a perimeter of 360 megaparsecs.

II) The larger base of $MNOP$ is 45 times bigger than the smaller base.

Find the length of the two legs of $MNOP$.

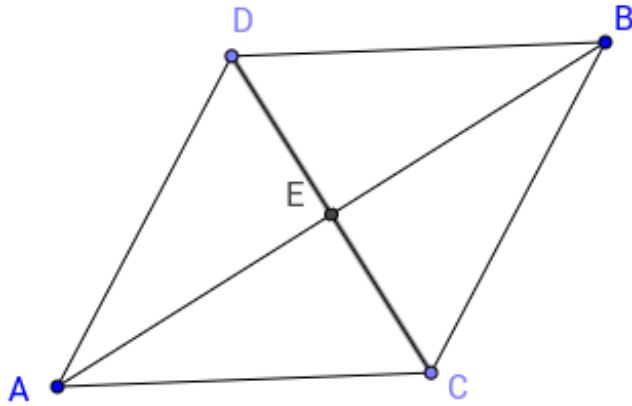
Neither statement is sufficient to answer the question. More information is needed.

Both statements are needed to answer the question.

Statement I is sufficient to answer the question, but Statement II is not sufficient to answer the question.

Statement II is sufficient to answer the question, but Statement I is not sufficient to answer the question.

Either statement is sufficient to answer the question.



8. What is the perimeter of quadrilateral ACBD?

(1) Diagonal DC and AB are perpendicular with midpoint E .

(2) $DB + BC = 15$

Each statement alone is sufficient

Statement 1 alone is sufficient

Both statements together are sufficient

Statements 1 and 2 together are not sufficient

Statement 2 alone is sufficient

9. Consider rectangle CONT.

I) Side CO is three fourths of side ON .

II) Side NT is 15.7 meters long.

What is the perimeter of CONT?

Neither statement is sufficient to answer the question. More information is needed.

Statement II is sufficient to answer the question, but statement I is not sufficient to answer the question.

Statement I is sufficient to answer the question, but statement II is not sufficient to answer the question.

Either statement is sufficient to answer the question.

Both statements are needed to answer the question.

Data sufficiency question- do not actually solve the question

10. Does the square or rectangle have a greater area?
1. The perimeter of both the square and rectangle are equal.
 2. The rectangle does not have four equal sides.

Statements 1 and 2 are not sufficient to answer the question and more information is needed

Each statement is sufficient

Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.

Statement 2 is sufficient, but statement 1 is not sufficient to answer the question

Statement 1 is sufficient, but statement 2 is not sufficient to answer the question

11. Give the area of a given rectangle.
- Statement 1: The perimeter of the rectangle is 36.
- Statement 2: All sides of the rectangle have a length equal to an odd prime integer.

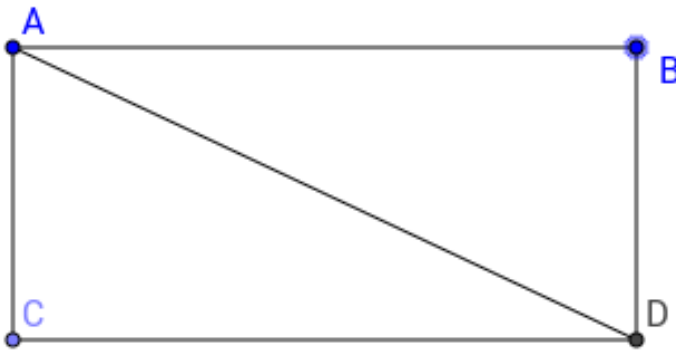
Statement 2 ALONE is sufficient to answer the question, but Statement 1 ALONE is NOT sufficient to answer the question.

Statement 1 ALONE is sufficient to answer the question, but Statement 2 ALONE is NOT sufficient to answer the question.

BOTH statements TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient to answer the question.

BOTH statements TOGETHER are insufficient to answer the question.

EITHER statement ALONE is sufficient to answer the question.



12. What is the length of the diagonal of rectangle $ABDC$?

(1) $AC=3$

(2) $\angle CDA=30^\circ$ and $CD=33-\sqrt{\quad}$

Each statement alone is sufficient

Statement 2 alone is sufficient

Statements 1 and 2 together are not sufficient

Statement 1 alone is sufficient

Both statements together are sufficient

13. Rectangle $ASOF$ has a perimeter of 28, what is its area?

I) The diagonal of ASOF is $43-\sqrt{\quad}$ inches.

II) The length of one side is 5 inches.

Neither statement is sufficient to answer the question. More information is needed.

Statement I is sufficient to answer the question, but Statement II is not sufficient to answer the question.

Both statements together are needed to answer the question.

Statement II is sufficient to answer the question, but Statement I is not sufficient to answer the question.

Either statement alone is sufficient to answer the question.

14. Ronald is making a bookshelf with a rectangular base that will be two yards tall. What is the area of the base?

I) The distance around the base will be 3 yards.

II) The smaller sides of the base are half the length of the longer sides.

Either statement alone is sufficient to answer the question.

Both statements together are needed to answer the question.

Neither statement is sufficient to answer the question. More information is needed.

Statement II is sufficient to answer the question, but Statement I is not sufficient to answer the question.

Statement I is sufficient to answer the question, but Statement II is not sufficient to answer the question.

Find the length of the side of a rectangle with a width three times the length.

15. 1. The area of the rectangle is 12in^2 .
2. The perimeter of the rectangle is 16in .

Each statement alone is sufficient to answer the question.

Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.

Statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question.

Statement 1 alone is sufficient, but statement 2 alone is not sufficient to answer the question.

Statements 1 and 2 are not sufficient, and additional data is needed to answer the question.

Data sufficiency question- do not actually solve the question

16. Find the area of a square.
1. The length of one side of the square is 4.
2. The length of the diagonal of the square is 12 .

Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient

Statement 1 alone is sufficient, but statement 2 alone is not sufficient to answer the question

Statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question

Statements 1 and 2 together are not sufficient, and additional data is needed to answer the question

Each statement alone is sufficient

17. A circle is inscribed inside Square $SQURSQUR$. The circle intersects the square at points $A, B, C,$ and D . Give the area of the square.

Statement 1: The circle has area 144π .

Statement 2: Arc \widehat{AB} has length 6π .

BOTH statements TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient to answer the question.

Statement 2 ALONE is sufficient to answer the question, but Statement 1 ALONE is NOT sufficient to answer the question.

Statement 1 ALONE is sufficient to answer the question, but Statement 2 ALONE is NOT sufficient to answer the question.

BOTH statements TOGETHER are insufficient to answer the question.

EITHER statement ALONE is sufficient to answer the question.

18. What is the equation of the line that is parallel to $y=2x+10$ and goes through point $(5,1)$?

$y=-12+9$

$y=2x-9$

$y=12x-9$

$y=-2x-9$

Given:

$f(x)=4x+13$

19. Which of the following is the equation of a line parallel to $f(x)$ that has a y-intercept of -13 ?

$$f(x)=4x-13$$

$$f(x)=-4x+13$$

$$f(x)=14x+13$$

$$f(x)=-14x-13$$

$$f(x)=-14x+13$$

20. What is the slope of the line parallel to $-9x-9y=9$?

$$m=-1$$

$$m=-9$$

$$m=1$$

$$m=9$$

21. Find the slope of any line parallel to the following function.

$$4y-6=3x+12$$

$$43$$

$$34$$

$$184$$

$$3$$

$$4$$

22. What is the equation of the line that is perpendicular to $y=2x+10$ and goes through point $(5,1)$?

$y = -12x + 72$

$y = 2x + 72$

$y = 12x + 72$

$y = -2x + 72$

23. Write the equation of a line that is perpendicular to $y = -12x + 4$ and goes through point $(0, 6)$?

$y = 2x + 6$

$y = -2x + 6$

$y = 12x + 6$

$y = -12x + 6$

24. What is the slope of the line perpendicular to $-9x - 9y = 9$?

$m = 1$

$m = 9$

$m = -19$

$m = -1$

25. What is the slope of a line perpendicular to the line of the equation $y = 8$?

-1

0

The line has an undefined slope.

-18

18

26. Determine the equation of the line tangent to the curve $y=x^2$ at the point $(-1,1)$?

$y=-2x+1$

$y=-x+2$

$y=-12x+4$

$y=x-2$

$y=-2x-1$

27. Find the equation of a line tangent to the curve $y=4x^2-3x+7$ at the point $(-2,-3)$.

$y=19x+41$

None of the above

$y=19x-41$

$y=-19x-41$

$y=-19x+41$

28. Suppose the curve of a function is parabolic. The x-intercept is $(2,0)$ and the vertex is the y-intercept at $(0,-4)$. What is a possible equation of the parabola, if it exists?

$$y=2x-4$$

Answer does not exist.

$$y=x^2-2x-4$$

$$y=x^2-4$$

$$y=x^2+2x-4$$

29. Which of the following functions has as its graph a curve with $(0,-4)$, and $(0,4)$ as its only two X-intercepts?

$$f(x)=x^3-4x^2-16x-64$$

$$f(x)=x^3-4x^2-16x+64$$

$$f(x)=x^3-64$$

$$f(x)=x^3+64$$

$$f(x)=x^3-4x^2+16x-64$$

30. What is the y-intercept of a line that includes points $(2,5)$ and $(7,1)$?

$$(0,325)$$

$$(0,715)$$

$$(0,7)$$

$$(0,635)$$

select

(0,645)