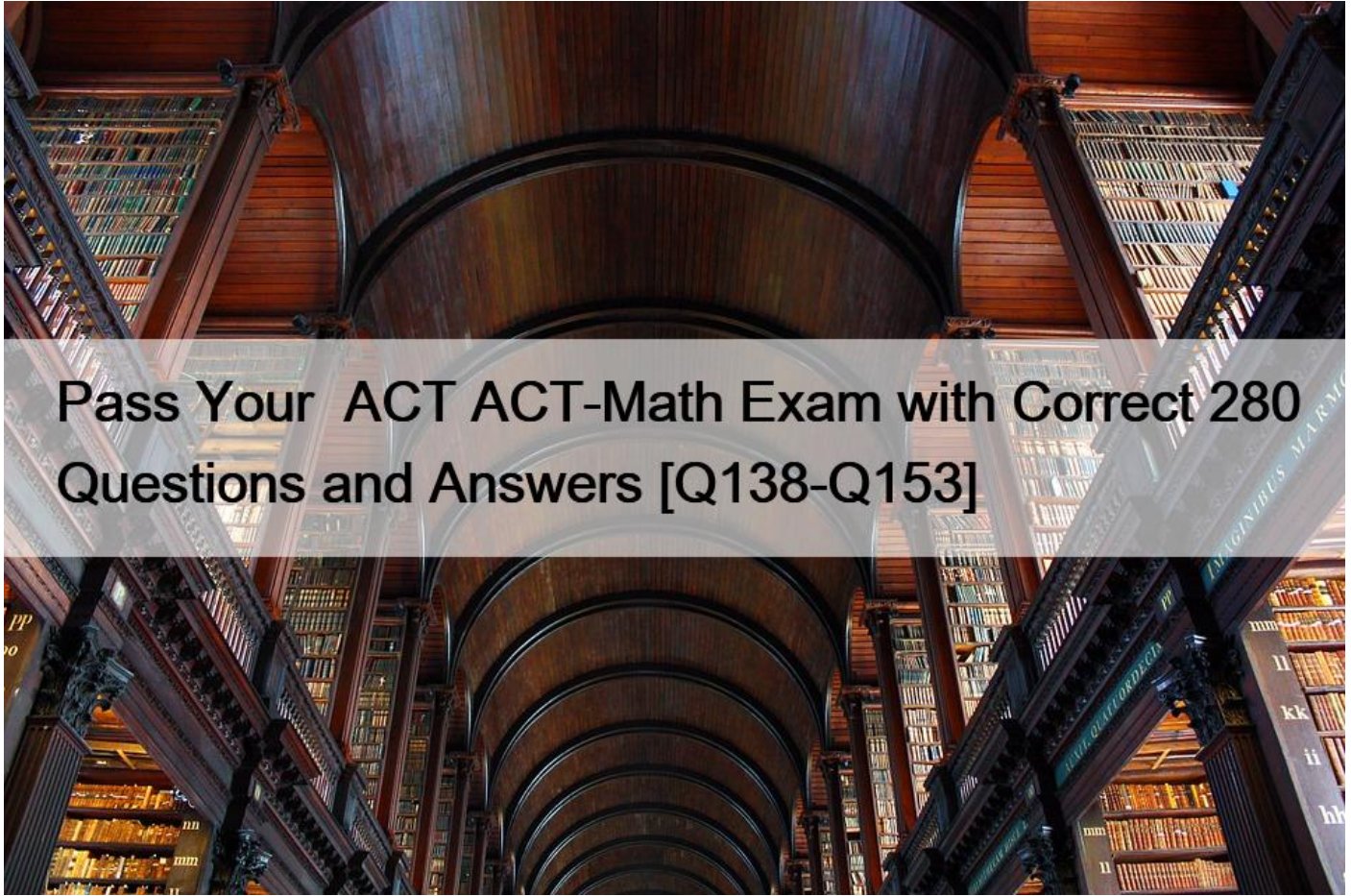
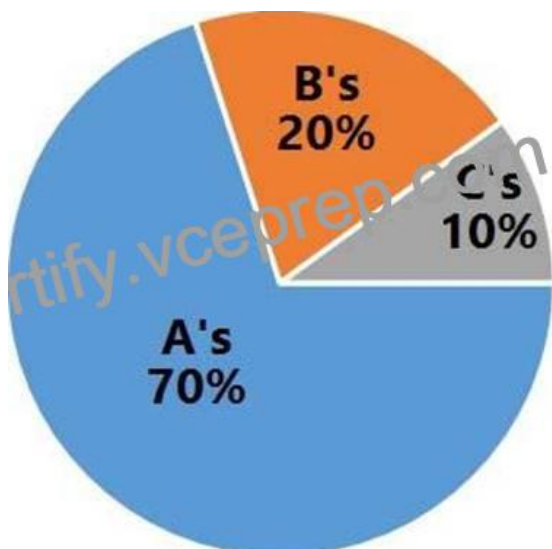


## Pass Your ACT ACT-Math Exam with Correct 280 Questions and Answers [Q138-Q153]



Pass Your ACT ACT-Math Exam with Correct 280 Questions and Answers  
Latest [Jan 13, 2023] 2023 Realistic Verified ACT-Math Dumps

**Q138.** The distribution of Jamal's high school grades by percentage of course credits is given in the circle graph below.



What is Jamal's grade point average if each A is worth 4 points; each B, 3 points; and each C, 2 points?

- \* 3.0
- \* 3.4
- \* 3.6
- \* 3.7
- \* Cannot be determined from the given information.

**Q139.** The area of an isosceles right triangle is  $18 \text{ cm}^2$ . What is the length of the hypotenuse of the triangle?

- \* 6 cm
- \*  $6\sqrt{2}$

cm  
\*  $18\sqrt{2}$

cm  
\*  $18\sqrt{3}$

cm  
\*  $36\sqrt{2}$

cm

**Q140.** If

$$a < \frac{43}{3x} < b$$

and  $a = 4$  and  $b = 8$ , which of the following could be true?

- \*  $x < a$
- \*  $x > b$
- \*  $a < x < b$
- \*  $4 < x < 8$
- \* None of the above

**Q141.** If  $g \times \frac{1}{4} = 16$ , then  $g \times (-\frac{1}{5})$ :

- \*  $\frac{1}{4}$
- \*  $\frac{1}{8}$
- \*  $\frac{16}{5}$
- \* 4
- \* 8

**Q142.** Which of the following is the midpoint of a line with endpoints at  $(-2, -8)$  and  $(8, 0)$ ?

- \*  $(3, 4)$
- \*  $(3, -4)$
- \*  $(-5, 4)$
- \*  $(5, -4)$
- \*  $(6, -8)$

**Q143.** Membership fees for NetFilms streaming service include a one-time membership fee of \$10 and ongoing monthly fees of \$5.

How many months would you be able to buy with \$120 after the membership fee is removed?

- \* 22
- \* 23
- \* 24
- \* 25

**Q144.** If

$$x \neq 0$$

and

$$y \neq 0$$

,

$$\frac{\frac{x}{y} + xy}{\frac{y}{xy} - \frac{1}{x}} =$$

\_\_\_\_\_.

- \*  $x/y + 1$ .
- \*  $x/y + x$ .
- \*  $x/y + y$ .
- \*  $2xy$
- \*  $y^2 + x$ .

**Q145.** It takes eight people 12 hours to clean an office.

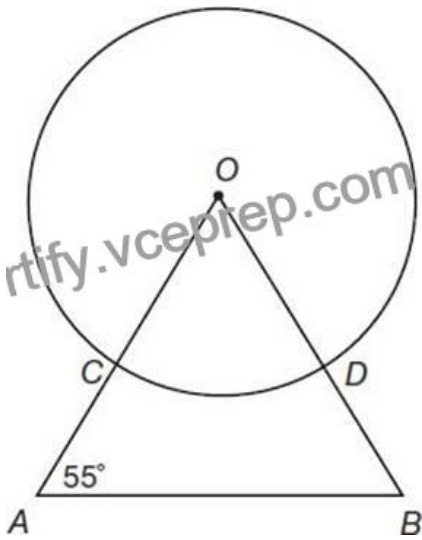
How long would it take six people to clean the office?

- \* 9 hours
- \* 15 hours
- \* 16 hours
- \* 18 hours
- \* 24 hours

**Q146.** What is the value of  $x$  when  $2x + 7 = 3x + 5$ ?

- \* 2
- \* 6
- \* 12
- \* 24

**Q147.** In the diagram above, line OA is congruent to line OB.



What is the measure of arc  $CD$ ?

- \*  $27.5^\circ$
- \*  $55^\circ$
- \*  $70^\circ$
- \*  $110^\circ$
- \*  $125^\circ$

**Q148.** What is the slope of the line  $-3y = 12x + 3$ ?

- \*  $-4$
- \*  $-3$
- \*  $1$
- \*  $4$
- \*  $12$

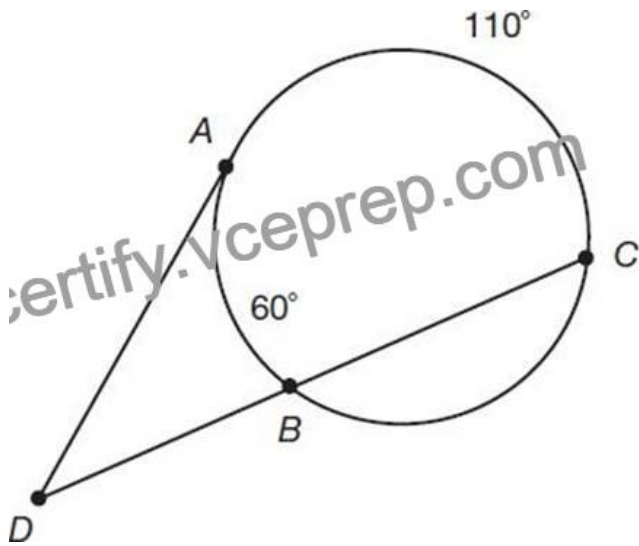
**Q149.** If  $x$  is more than one-third the value of  $y$ , which of the following expresses the value of  $y$  in terms of  $x$ ?

- \*  $y = (x + 2) / 3$
- \*  $y = (x + 2) / 3$
- \*  $y = 3 \times (x + 2)$
- \*  $y = 3 \times (x + 6)$

**Q150.** Given the following figure with one tangent and one secant drawn to the circle, what is the measure of

$\angle ADB$

?



- \* 50
- \* 85
- \* 60
- \* 110
- \* 25

**Q151.** An industrial cleaner is manufactured using only the 3 secret ingredients A, B, and C, which are mixed in the ratio of 2:3:5, respectively, by weight.

How many pounds of secret ingredient B are in a 42-pound (net weight) bucket of this cleaner?

- \* 4.2
- \* 12.6
- \* 14.0
- \* 18.0
- \* 21.0

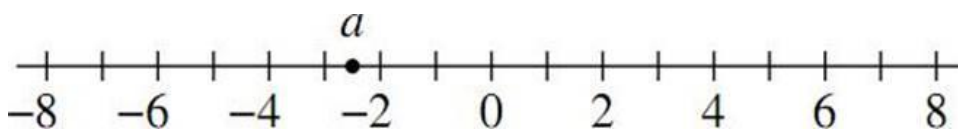
**Q152.** If

$$\frac{a}{b-4} = \frac{4b}{a} + 1$$

, then when  $a = 8$ ,  $b$  could be equal to:

- \* -2
- \* 4
- \* 6
- \* 7
- \* 8

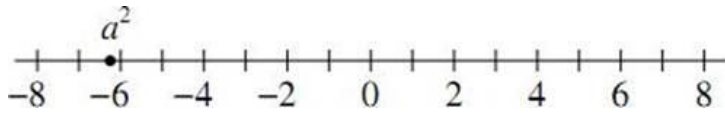
**Q153.** The number  $a$  is located at -2.5 on the number line below



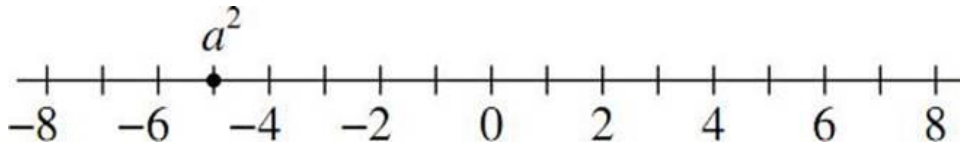
One of the following number lines shows the location of  $a^2$ .

Which number line is it?

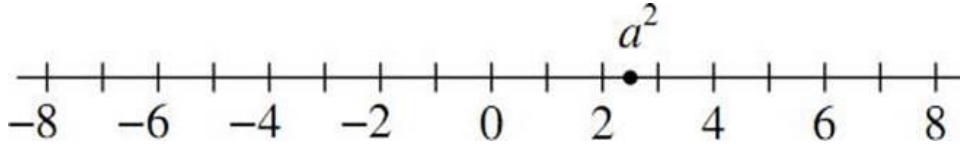
A)



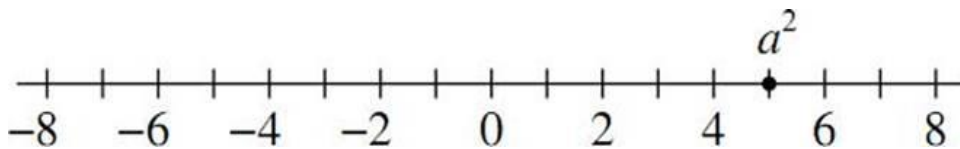
B)



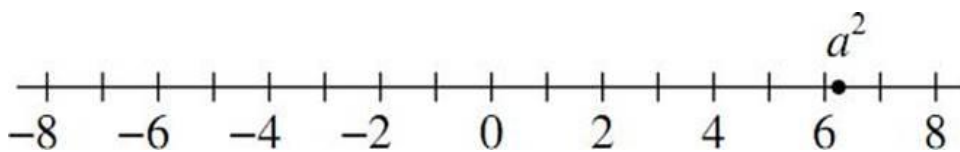
C)



D)



E)



\* Option A

\* Option B

- \* Option C
- \* Option D
- \* Option E

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