

11

Which of the following numbers is NOT a solution of the inequality $3x - 5 \geq 4x - 3$?

- ✓ A) -1
B) -2
C) -3
D) -5

$$\begin{aligned} & \cancel{3x} - 5 \geq \cancel{4x} - 3 \\ & -5 \geq x - 3 \\ & +3 \quad +3 \\ & -2 \geq x \end{aligned}$$

$$x \leq -2$$

$$-8 \neq -7$$

$$\frac{x^8}{x^3} = x^5$$

If $3x - y = 12$, what is the value of $\frac{8^x}{2^y}$? =

A) 2^{12}

B) 4^4

C) 8^2

D) The value cannot be determined from the information given.

$$\begin{aligned} \frac{(2^3)^x}{2^y} &= \frac{2^{3x}}{2^y} \\ 2^{3x-y} &= 2^{12} \end{aligned}$$

SAT strategies

① Fill-Ins (No negatives), think if your answers make sense, if you can not make an educated guess, then guess either "1" or "0".

② Multiple Choice:

a) Which one has the most common traits?

- ~~A)~~ -2
- B) 2
- C) 4
- ~~D)~~ 13

- ~~A)~~ $\frac{x}{2}$
- ~~B)~~ $\frac{1}{2}x + 1$
- C) $-3x + 4$
- D) $-\frac{1}{2}x - 1$

MC

b) Plug in answers (start with B or C)

- A) -2
- B) 5
- C) 8
- D) 10

- or
- A) -1
 - B) -2
 - C) -3
 - D) -4

$\sqrt{x=1}$
 $\sqrt{x=0}$

c) Let (x = some #)

Ex:

$$\frac{x^2 + 3x + 2}{x + 1} = \frac{6}{2} = 3$$

- ~~a) x+1~~
- ~~b) x-2~~
- ~~c) $x^2 + 2x$
1 + 2 = 3~~

d) $x+2$
 $0+2=2$
 $1+2=3$

$$\frac{(x+1)(x+2)}{(x+1)} = \frac{2}{1} = 2$$