

INTRO TO VARIABLES - HELP

ANSWERS - PAGE 1

HEY POE, WE NEED TO START VARIABLES.

VARIABLES HUH? HOLD ON... A VARIABLE IS A SYMBOL USED TO REPRESENT ONE OR MORE NUMBERS. THAT'S CONFUSING.

WELL LET'S SEE... THE EASIEST WAY TO EXPLAIN A VARIABLE. A VARIABLE IS USUALLY A LETTER THAT STANDS FOR A NUMBER.

WOW, SO WE'RE GOING TO START USING LETTERS INSTEAD OF NUMBERS. AND I THOUGHT MATH WAS CONFUSING ENOUGH ALREADY.

BEFORE YOU PANIC, LET ME SHOW YOU A SIMPLE EXAMPLE.

$$\boxed{?} + 2 = 5$$

I GET IT. YOU WANT TO KNOW WHAT PLUS 2 EQUALS 5. THAT'S EASY ENOUGH, $3 + 2 = 5$.

PERFECT. DO YOU SEE HOW YOU JUST FILLED IN THE EMPTY BOX?

$$\boxed{3} + 2 = 5$$

YES, I WOULD PUT THREE THERE.

WELL, IT STARTS TO GET CONFUSING AND SILLY TO KEEP USING EMPTY BOXES, SO INSTEAD WE CAN USE A LETTER. DO YOU SEE HOW I USED "x" WHERE THE BOX WAS?

SO I WOULD JUST SAY $x = 3$, BECAUSE $3 + 2 = 5$.

I THINK HE'S GOT IT.

$$x + 2 = 5$$

$$x = 3 \text{ OR } \boxed{3} + 2 = 5$$

INTRO TO VARIABLES PRACTICE SHEET - A

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HERE'S A HELPFUL EXAMPLE. DO YOU SEE HOW I REPLACED THE EMPTY BOX WITH THE LETTER "c"? THE PROBLEMS ARE EXACTLY THE SAME.

$$\boxed{} - 5 = 4 \rightarrow c - 5 = 4$$

$$\boxed{9} - 5 = 4 \quad c = 9$$

SOLVE EACH EQUATION.

- $3 + 4 = \boxed{7}$
- $3 + \boxed{4} = 7$
- $\boxed{7} - 4 = 3$
- $10 - \boxed{6} = 4$
- $\boxed{7} - 2 = 5$
- $8 + \boxed{4} = 12$
- $\boxed{8} + 1 = 9$
- $8 - \boxed{4} = 4$
- $11 + 4 = \boxed{15}$
- $4 + \boxed{0} = 4$
- $5 - 5 = \boxed{0}$
- $\boxed{6} - 5 = 1$
- $3 + 4 = k$
 $k = \boxed{7}$
- $3 + c = 7$
 $c = \boxed{4}$
- $x - 4 = 3$
 $x = \boxed{7}$
- $8 - y = 7$
 $y = \boxed{1}$
- $0 + a = 4$
 $a = \boxed{4}$
- $4 + 5 = t$
 $t = \boxed{9}$
- $e + 3 = 13$
 $e = \boxed{10}$
- $s - 2 = 6$
 $s = \boxed{8}$
- $x + 6 = 8$
 $x = \boxed{2}$
- $5 - t = 4$
 $t = \boxed{1}$
- $4 + 4 = d$
 $d = \boxed{8}$
- $9 - 3 = h$
 $h = \boxed{6}$
- $4 - 1 = w$
 $w = \boxed{3}$
- $6 - y = 6$
 $y = \boxed{0}$
- $5 + j = 10$
 $j = \boxed{5}$
- $7 + b = 12$
 $b = \boxed{5}$
- $r + 2 = 12$
 $r = \boxed{10}$
- $x - 2 = 12$
 $x = \boxed{14}$

INTRO TO VARIABLES PRACTICE SHEET - B

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HERE'S ANOTHER HELPFUL EXAMPLE USING MULTIPLICATION.

$$\boxed{} \cdot 2 = 10 \rightarrow c \cdot 2 = 10$$

$$\boxed{5} \cdot 2 = 10 \quad c = 5$$

DON'T FORGET. "•" MEANS MULTIPLICATION.

SOLVE EACH EQUATION.

- $6 \cdot \boxed{4} = 24$
- $2 \cdot 7 = \boxed{14}$
- $\boxed{3} \cdot 3 = 9$
- $10 \div \boxed{2} = 5$
- $6 \div 3 = \boxed{2}$
- $12 \div \boxed{3} = 4$
- $\boxed{7} \cdot 1 = 7$
- $\boxed{8} \div 4 = 2$
- $15 \div 3 = \boxed{5}$
- $8 \cdot \boxed{2} = 16$
- $\boxed{6} \cdot 5 = 30$
- $32 \div 8 = \boxed{4}$
- $4 \cdot d = 24$
 $d = \boxed{6}$
- $9 \cdot 3 = r$
 $r = \boxed{27}$
- $t \cdot 6 = 12$
 $t = \boxed{2}$
- $14 \div y = 7$
 $y = \boxed{2}$
- $45 \div 9 = w$
 $w = \boxed{5}$
- $15 \div b = 5$
 $b = \boxed{3}$
- $x \cdot 7 = 21$
 $x = \boxed{3}$
- $12 \cdot a = 0$
 $a = \boxed{0}$
- $k \div 3 = 7$
 $k = \boxed{21}$
- $e \div 6 = 6$
 $e = \boxed{36}$
- $88 \div 8 = w$
 $w = \boxed{11}$
- $r \cdot 9 = 81$
 $r = \boxed{9}$
- $50 \div 5 = y$
 $y = \boxed{10}$
- $c \cdot 4 = 16$
 $c = \boxed{4}$
- $18 \div h = 3$
 $h = \boxed{6}$
- $33 \div p = 3$
 $p = \boxed{11}$
- $8 \cdot n = 48$
 $n = \boxed{6}$
- $11 \cdot 12 = x$
 $x = \boxed{132}$

INTRO TO VARIABLES PRACTICE SHEET - C

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DO YOU SEE HOW WE ALWAYS PUT WHAT THE VARIABLE (LETTER) EQUALS AT THE END?

$$j - 7 = 6 \quad \text{OR} \quad 40 \div b = 5$$

$$j = 13 \quad b = 8$$

SOLVE EACH EQUATION.

- $88 \div r = 8$
 $r = \boxed{11}$
- $12 + 13 = d$
 $d = \boxed{25}$
- $65 \div 5 = a$
 $a = \boxed{13}$
- $h - 6 = 11$
 $h = \boxed{17}$
- $y \cdot 3 = 39$
 $y = \boxed{13}$
- $54 \div 6 = x$
 $x = \boxed{9}$
- $10 + c = 20$
 $c = \boxed{10}$
- $36 \div b = 9$
 $b = \boxed{4}$
- $18 - m = 7$
 $m = \boxed{11}$
- $48 \div 12 = j$
 $j = \boxed{4}$
- $x - 13 = 12$
 $x = \boxed{25}$
- $t \div 4 = 12$
 $t = \boxed{48}$
- $w + 7 = 15$
 $w = \boxed{8}$
- $p \div 5 = 4$
 $p = \boxed{20}$
- $23 + 6 = e$
 $e = \boxed{29}$
- $20 - d = 10$
 $d = \boxed{10}$
- $y \cdot 12 = 60$
 $y = \boxed{5}$
- $42 \div 7 = z$
 $z = \boxed{6}$
- $20 \div k = 5$
 $k = \boxed{4}$
- $r + 9 = 18$
 $r = \boxed{9}$
- $u \cdot 11 = 22$
 $u = \boxed{2}$
- $23 - 16 = a$
 $a = \boxed{7}$
- $63 \div 7 = c$
 $c = \boxed{9}$
- $k \div 12 = 3$
 $k = \boxed{36}$
- $6 \cdot x = 42$
 $x = \boxed{7}$
- $y + 12 = 25$
 $y = \boxed{13}$
- $40 \div t = 4$
 $t = \boxed{10}$
- $15 + w = 30$
 $w = \boxed{15}$
- $26 \div g = 13$
 $g = \boxed{2}$
- $9 \cdot k = 0$
 $k = \boxed{0}$