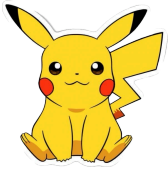
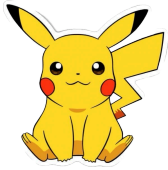


Day 4 Homework



Quick Check-In:

1. On a scale of 1-5, how confident are you feeling with the table method and the writing/solving linear equations?

N/A

2. What can I do to help best support you?

N/A

3. Is there any math skill (different from the ones you listed in the survey) that you want to improve on?

N/A

Class Review:

1. Tyler reads $\frac{2}{15}$ of a book on Monday, $\frac{1}{3}$ of it on Tuesday, $\frac{2}{9}$ of it on Wednesday, and $\frac{3}{4}$ of the remainder on Thursday. If he still has 14 pages left to read on Friday, how many pages are there in the book?

1) • M: $\frac{2}{15}$
• T: $\frac{1}{3}$
• W: $\frac{2}{9}$
} 15, 3, 9 can have common denominator of 45

⇉ • $\frac{2}{15} = \frac{6}{45}$
• $\frac{1}{3} = \frac{15}{45}$
• $\frac{2}{9} = \frac{10}{45}$
} add up: $\frac{6}{45} + \frac{15}{45} + \frac{10}{45} = \frac{31}{45}$
↳ $\frac{31}{45}$ represents progress by Wed.

2) remainder of book: $\frac{45}{45} - \frac{31}{45} = \frac{14}{45} \times \frac{3}{4} = \frac{42}{180} = \frac{7}{30}$

3) After Thursday:
$\frac{14}{45} - \frac{7}{30} = \frac{28}{90} - \frac{21}{90} = \frac{7}{90}$

4) remaining on Friday: 14
$\frac{7}{90}x = 14$
↳ $x = \frac{14 \cdot 90}{7} =$ 180 total pages in book

2. Hannah presents Jake with the following number puzzle: Start with a number, Multiply by 5, Add 12, Divide by 3, Subtract 7. The end result is 20. What was the original number?

1. start with a number = x
2. multiply by 5 : $x \cdot 5$ or $5x$
3. add 12 : $5x+12$
4. divide by 3 : $\frac{5x+12}{3}$
5. subtract by 7 : $\frac{5x+12}{3} - 7$
6. End result is 20 : $\frac{5x+12}{3} - 7 = 20$

7. solve for original number :
   1. $\frac{5x+12}{3} - 7 = 20$
   2. $\frac{5x+12}{3} = 27$
   3. $5x + 12 = 81$
   4. $5x = 69 \Rightarrow x = \frac{69}{5}$

Challenge Questions: (It is okay if you do not know how to do this, it just means that your math skills are not there YET) Please attempt these so I can see where you are at with solving linear equations (:

Solve the following and show your work:

1. $3p - 6 + 4p = 12$

   $3p + 4p - 6 = 12$

   $7p - 6 = 12$

   $7p = 18$

   $\boxed{p = \frac{18}{7}}$

2. $2 - 15 + 4k = 3k - 2$

   $4k - 13 = 3k - 2$

   $4k = 3k + 11$

   $\boxed{k = 11}$

3. $-4(x + 2) - 5(2x - 3)$

   $-4x - 8 - 10x + 15$

   $-4x - 10x - 8 + 15$

   $\boxed{-14x + 7}$