

Some quick notes:

Solving Equations 2

Name: _____

2- Step Equations - CLT division (1)

Problem-Solving Situation

James is selling candy bars to raise money for the local homeless shelter. James sold 4 candy bars on Tuesday and 3 candy bars on Thursday. James raised a total of \$14 for the week. Distinguish how much each candy bar cost?

$$\frac{\text{\# of bars on Tues}}{\text{Price of a bar}} + \frac{\text{\# of bars on Thurs}}{\text{Price of a bar}} = \frac{\text{total money raised}}{\text{Price of a bar}}$$

1) $14 = 4c + 3c$

7) $50 = 8s + 2s$

13) $27 = 5j + 4j$

2) $4b + 2b = 24$

8) $3r + r = 20$

14) $4m + 2m = 36$

3) $25 = v + 4v$

9) $14 = 7x + 7x$

15) $48 = p + 7p$

4) $7f + f = 40$

10) $6y + 2y = 32$

16) $6h + h = 49$

5) $36 = 9m + 3m$

11) $24 = p + 3p$

17) $40 = 4t + 6t$

6) $n + n = 18$

12) $2n + 10n = 48$

18) $2s + 4s = 30$

22) Kilee and Avery decided to prepare for volleyball tryouts by running a certain number of miles each day. Kilee followed the program for 4 days. Avery got sick and could only run 2 days. Together they ran a total of 24 miles. Distinguish the daily number of miles each girl ran? *Hint: Let m stand for the daily number of miles*

$$\frac{\text{Kilee's days}}{\text{Kilee's miles}} + \frac{\text{Avery's days}}{\text{Avery's miles}} = \frac{\text{total miles}}{\text{total miles}}$$

23) Devin collects both Brittany Spears and Hannah Montana music CDs. He has 5 CDs in his Brittany Spears collection and 3 CDs in his Hannah Montana collection. In his collection, he has a total of 80 songs. If each CD has the same number of songs, distinguish how many songs are on each CD? *Hint: Let s stand for the daily number of songs*

$$\frac{\text{BS CDs}}{\text{BS songs}} + \frac{\text{HM CDs}}{\text{HM songs}} = \frac{\text{total songs}}{\text{total songs}}$$

24) Mrs Sharkey and Mrs Fauson decided to prepare for the school rollerblading race by rollerblading a certain number of miles each day. Mrs Fauson practiced for 5 days. Mrs Sharkey attended a family reunion downriver and could only practice for 3 days. Together, Mrs Sharkey and Mrs Fauson rollerbladed 32 miles. Distinguish how many miles they rollerbladed per day?

$$\frac{\text{Sharkey's days}}{\text{Sharkey's miles}} + \frac{\text{Fauson's days}}{\text{Fauson's miles}} = \frac{\text{total miles}}{\text{total miles}}$$

25) Fred and Barney both collect sets of baseball cards. Over a six month period of time, Fred collected 5 sets of cards and Barney collected 4 sets of cards. Sets have the same number of cards. Together they collected a total of 81 cards. Distinguish how many cards were in each set?

$$\frac{\text{Fred's sets}}{\text{Fred's cards}} + \frac{\text{Barney's sets}}{\text{Barney's cards}} = \frac{\text{total cards}}{\text{total cards}}$$

26) Homer and Marge volunteered some of their free time to work in a nursing home delivering magazines to the people there. Homer was able to work on 3 different days while Marge worked on 5 different days. All total, Homer and Marge worked 24 hours. If Homer and Marge worked the same amount of hours each day, distinguish how many hours Homer and Marge worked each day?

$$\frac{\text{Homer's days}}{\text{Homer's hours}} + \frac{\text{Marge's days}}{\text{Marge's hours}} = \frac{\text{total hours}}{\text{total hours}}$$

27) Dr Doofus collects both comic books and car magazines. He has organized them so that he has 3 boxes of comic books and 2 boxes of car magazines. He has 55 comic books and magazines in all. If each box has the same number of comic books or magazines in them, distinguish how many comic books or magazines are in each box?

$$\frac{\text{Comic books}}{\text{Comic books per box}} + \frac{\text{Car magazines}}{\text{Car magazines per box}} = \frac{\text{total items}}{\text{total items}}$$

EXTRA PRACTICE!

Sabrina and Eric decided to train for the annual Reindeer Run over the holidays. Sabrina was able to train on 5 different days. Eric was able to train on 4 different days. All together, they ran 36 miles during training. Distinguish how many miles per day they ran during their training if they ran the same amount each day?

$$\frac{\text{Sabrina's days}}{\text{Sabrina's miles}} + \frac{\text{Eric's days}}{\text{Eric's miles}} = \frac{\text{total miles}}{\text{total miles}}$$

Juan wanted to find out how many songs the two local radio stations played in one hour's time. Juan was able to count the number of songs played on KTK for 4 hours. Juan counted the number of songs played on K Brittany Spears for 3 hours. All total, the two radio stations played 49 songs. Distinguish how many songs the stations averaged playing per hour?

$$\frac{\text{KTK hours}}{\text{KTK songs}} + \frac{\text{K Brittany Spears hours}}{\text{K Brittany Spears hours}} = \frac{\text{total songs}}{\text{total songs}}$$

Chris was asked by the principal to make team charts for the 8th grade holiday basketball competition. All teams had the same number of players. House A had 3 teams entered, while House B had 5 teams entered. A total of 48 players were playing. Distinguish how many players were on each team?

$$\frac{\text{House A teams}}{\text{House A players}} + \frac{\text{House B teams}}{\text{House B players}} = \frac{\text{total players}}{\text{total players}}$$

Tabria and Luann trained for the 4th of July bicycle race. Tabria trained for 4 days while Luann trained for 3 days. All together, Tabria and Luann trained a total of 21 hours. If they each trained the same number of hours each day, distinguish how many hours they trained each day?

$$\frac{\text{Tabria's days}}{\text{Tabria's miles}} + \frac{\text{Luann's days}}{\text{Luann's miles}} = \frac{\text{total miles}}{\text{total miles}}$$

Ivan and Major both collect football cards. Over a three month period of time, Ivan collected 4 sets of cards and Major also collects 4 sets of cards. Together they collected 56 cards. Distinguish how many cards were in each set?

$$\frac{\quad}{\text{Ivan's sets}} \frac{\quad}{\text{Ivan's cards}} + \frac{\quad}{\text{Major's sets}} \frac{\quad}{\text{Major's cards}} = \frac{\quad}{\text{total cards}}$$

Carissa and Nick volunteered some of their free time to work in a child care center. Carissa was able to work on 2 different days and Nick was able to work on 4 different days. All total, they worked 18 hours. If Carissa and Nick worked the same number of hours each day, distinguish how many hours a day they worked?

$$\frac{\quad}{\text{Carissa's days}} \frac{\quad}{\text{Carissa's hours}} + \frac{\quad}{\text{Nick's days}} \frac{\quad}{\text{Nick's hours}} = \frac{\quad}{\text{total hours}}$$

Jacqueline and Roland trained for the basketball free throw shooting contest. Jacqueline trained on 4 days and Roland trained on 3 days. All together they shot 77 free throws. If they shot the same number on each day, distinguish how many free throws they shot on each day of training?

$$\frac{\quad}{\text{Jacqueline's days}} \frac{\quad}{\text{Jacqueline's shots}} + \frac{\quad}{\text{Roland's days}} \frac{\quad}{\text{Rolan}} = \frac{\quad}{\quad}$$