Adding & Subtracting Rational Numbers (Word Problems)   11/9

Key Words

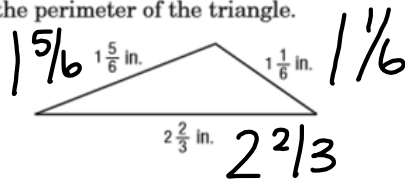| Add	Subtract
Sum	Difference
Altogether	How many/much more
total	Left over/remain
in all	
Positive Words	Negative words

Don't forget to Label

Nov 5-12:01 PM

GRADES If $\frac{1}{3}$ of the students got an A And $\frac{2}{5}$ of them got a B, what fraction of the students got an A or a B?

$$\frac{1}{3} + \frac{2}{5} = \boxed{\frac{11}{15} \text{ of the students}}$$

WATER AEROBICS If $\frac{5}{8}$ of the people in a water aerobics class are over age 65 and $\frac{1}{4}$ of the people in the class are under age 40, what fraction of the people in the class are either over 65 or under 40?

$$\frac{5}{8} + \frac{1}{4} = \boxed{7/8 \text{ of the people}}$$

RUNNING On Monday, Deborah ran $3\frac{2}{5}$ miles and on Tuesday she ran $4\frac{1}{5}$ miles. How many miles did she run on these two days together?

$$3\frac{2}{5} + 4\frac{1}{5} = \boxed{7\frac{3}{5} \text{ miles}}$$

PRINTING Swamee and Luigi were printing calendars. Swamee used $2\frac{1}{2}$ ink cartridges while Luigi used $1\frac{3}{4}$ ink cartridges. How many more ink cartridges did Swamee use than Luigi?

$$2\frac{1}{2} - 1\frac{3}{4} = \boxed{3/4 \text{ of a cartridge}}$$
$$2\frac{2}{4} - 1\frac{3}{4}$$
$$\frac{10}{4} - \frac{7}{4}$$

Nov 4-10:51 AM

1

11. GEOMETRY Find the perimeter of the triangle.

$1 \frac{5}{6}$ $1 \frac{5}{6}$ in. $1 \frac{1}{6}$ in. $1 \frac{1}{6}$

$2 \frac{2}{3}$ in. $2 \frac{2}{3}$

$$1 \frac{5}{6} + 1 \frac{1}{6} + 2 \frac{2}{3} = 5 \frac{2}{3} \text{ in}$$

12. KNITTING Nastia knitted two scarves for her dolls. One was $8 \frac{3}{4}$ inches long. The other was $1 \frac{1}{2}$ inches shorter than the first. How long was the second scarf?

$$8 \frac{3}{4} - 1 \frac{1}{2} = 7 \frac{1}{4} \text{ in.}$$

Nov 5-12:01 PM

A hybrid car's gas tank can hold 11 9/10 gallons of gasoline. It contains 8 3/4 gallons of gas already. How much more gasoline is needed to fill the tank?

$$11 \frac{9}{10} - 8 \frac{3}{4}$$

$$\boxed{3 \frac{3}{20} \text{ gallons}}$$

Nov 5-12:25 PM