1) Find if 1300 is divisible by 2, 3, 5, 6, 9, and 10?

#### Divisible by:

- 2: Y It's an even number.
- 3: N 1+3+0+0=4, which is not divisible by 3, so 1300 is not, either.
- 5: Y It ends in a 5 or 0.
- 6: N It must be divisible by both 2 AND 3.
- 9: N 1+3+0+0=4, which is not divisible by 9, so 1300 is not, either.

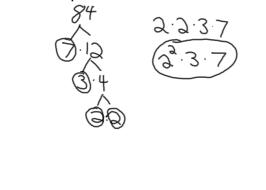
#1

10: Y It ends in 0.

2) Is 27 a composite number? Why or why not?

27 is a composite number because it has other factors other than 1 and 27. It also has factors of 3 and 9.

3) What the prime factorization of 84



4) What is the GCF of 34 & 96?

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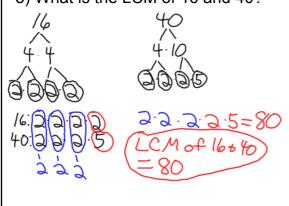
34 96

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#2

#3 #4

5) What is the LCM of 16 and 40?

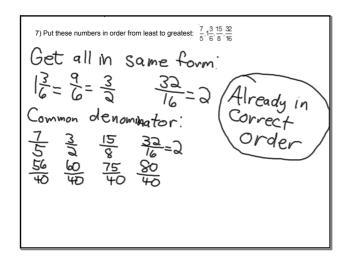


6) Write two fractions equivalent to  $\frac{5}{6}$ 

These are just two examples. There are infinite possibilities.

$$\frac{5.3}{6.3} = \frac{15}{18}$$

#5 #6



8) Write a mixed number equal to  $\frac{34}{7}$   $34 \leftarrow \text{divide} \quad 734 \quad 45$   $28 \quad 6$ 

#7 #8

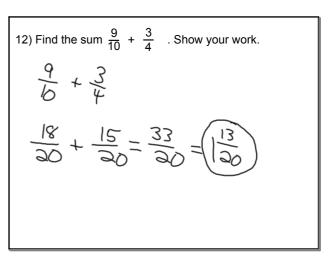
9) Which improper fraction is equal to 
$$5\frac{4}{9}$$

$$9.5=45$$

$$45+4=49$$

10) Which mixed number is equal to 4.85? (Put the fraction in simplest form.)  $4.85 = 4\frac{85}{100.5} = 40$ "eighty-five hundredths"

#9 #10



#11 #12

13) Find the difference 
$$\frac{3}{5} - \frac{9}{20}$$
. Show your work.

$$\frac{3}{5} - \frac{9}{20}$$

$$\frac{13}{20} - \frac{9}{20} = \frac{3}{20}$$

14) You planted 
$$\frac{1}{6}$$
 acres of corn yesterday and  $\frac{1}{8}$  acres today.

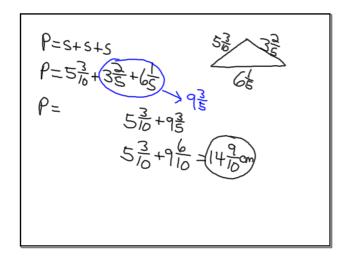
How many more acres did you plant today?

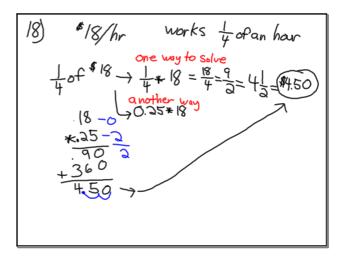
 $\frac{18}{10} \rightarrow \frac{18}{20} \rightarrow \frac{16}{20} \rightarrow \frac{16$ 

#13 #14

$$6\frac{1}{3} - 2\frac{1}{4}$$
 $-3\frac{1}{4}$ 
 $-3\frac{1}{4}$ 
 $-3\frac{1}{4}$ 
 $-3\frac{1}{4}$ 
 $-3\frac{1}{4}$ 
 $-3\frac{1}{4}$ 

#15 May 26-2:59 PM





May 26-3:04 PM May 26-3:13 PM

$$\frac{9}{10} \times \frac{3}{4} = 27$$

$$\frac{3}{7} \times x = \frac{10}{12}$$

$$\frac{3}{7} \times \frac{10}{12} = \frac{10 \div 2}{28 \div 2} = \frac{5}{14}$$

#19 #20

21) 
$$9\frac{1}{4} \cdot 3\frac{1}{4} = \frac{481}{16} = \frac{30\frac{1}{16}}{30\frac{1}{16}}$$

$$\frac{37}{4} \cdot \frac{13}{4} = \frac{481}{16} = \frac{30\frac{1}{16}}{16}$$

$$\frac{37}{11} \times \frac{13}{11} = \frac{48}{16} = \frac{30\frac{1}{16}}{16}$$

$$\frac{37}{11} \times \frac{13}{11} = \frac{48}{16} = \frac{30\frac{1}{16}}{16}$$

$$\frac{37}{11} \times \frac{13}{11} = \frac{48}{16} = \frac{30\frac{1}{16}}{16}$$

22) reciprocal of 29

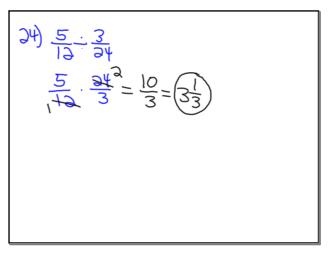
must change to improper fraction

29=32 reciprocals 9

20

#21 #22

33) 
$$8 \div \frac{4}{3} \rightarrow \frac{1}{8} \cdot \frac{3}{3} = \frac{32}{103} = \frac{2}{103} = \frac$$



#23 #24

$$25) \quad 2\frac{1}{3} - 1\frac{4}{5} = \frac{7}{3} - \frac{9}{5}$$

$$\frac{7}{3} \cdot \frac{5}{9} = \frac{35}{27} - \frac{9}{27}$$

$$\frac{36}{MW} = \frac{18}{34} = \frac{9}{17}$$

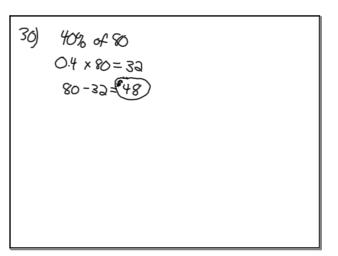
#25 #26

$$\frac{32.79}{16} = \frac{32.79}{6.25} = \frac{x}{1}$$

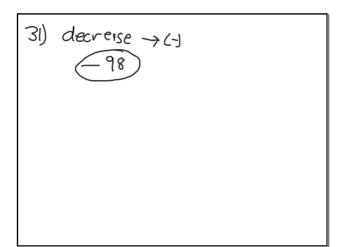
$$32.79 \cdot 1 = 6.25x$$

$$x = \frac{32.79}{6.25} = 5.25/16$$

#27 #28



#29 #30



#31 #32

33) The opposite of -10 is 10.

#33 #34

35)

The word "of" in mathematical terms actually represents multiplication. Those two numbers should in fact be multiplied when you take "half of the recipe."

36) You can actually use only the 1/4 cups to get 2 1/2 cups. All you would need to do is measure with the 1/4 cup 10 times.  $10/4 = 2\ 1/2$ 

#35 #36

$$\frac{330 \text{ miles}}{16 \text{ gellons}} = \frac{x \text{ mi}}{1 \text{ gel}}$$

$$\frac{330 \cdot 1 = 16x}{16}$$

$$\frac{330 \cdot 1 = 16x}{16}$$
This is a unit rate because it is calculated for every ONE (1) gallon. When a rate is calculated to ONE of some unit, it is defined as a unit rate.

#37