

Grade 7 Warm Up



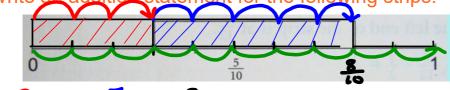
Quiz Time

-for students that missed Friday

For the rest



Write an addition statement for the following strips.



$$\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$$

Reduce 1

 $\frac{3}{10} + \frac{1}{2} = \frac{4}{10}$

Jenominator

Solutions

3. Add. Estimate first.

a) $\frac{3}{5} + \frac{1}{10}$ b) $\frac{3}{10} + \frac{1}{2}$ c) $\frac{6}{8} + \frac{3}{4}$ d) $\frac{3}{8} + \frac{5}{2}$ $\frac{1}{10} + \frac{1}{10} = \frac{7}{10}$ $\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$ $\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$ $\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$ $\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$

a)
$$\frac{3}{5} + \frac{1}{10}$$

b)
$$\frac{3}{10} + \frac{1}{2}$$

c)
$$\frac{6}{9} + \frac{3}{4}$$

d)
$$\frac{3}{8} + \frac{5}{2}$$

a)
$$\frac{1}{4} + \frac{3}{10}$$

5)
$$\frac{5}{6} + \frac{7}{9}$$

c)
$$\frac{4}{2} + \frac{1}{6}$$

d)
$$\frac{7}{2} + \frac{3}{8}$$

4. Add. Estimate first.
a)
$$\frac{1}{4} + \frac{3}{10}$$
 b) $\frac{5}{6} + \frac{7}{8}$ c) $\frac{4}{3} + \frac{1}{6}$ d) $\frac{7}{2} + \frac{3}{8}$

$$\frac{5}{20} + \frac{1}{20} = \frac{11}{20}$$
 $\frac{20}{24} + \frac{21}{24} = \frac{41}{24}$ $\frac{8}{6} + \frac{1}{6} = \frac{9}{6}$ $\frac{28}{8} + \frac{3}{8} = \frac{31}{8}$

solutions

5. These are fractions of the students in a class who chose their favourite sport.

Baseball	Basketball	Hockey	Snowboarding	Swimming	Tennis
1/4	<u>1</u> 9	<u>1</u>	<u>1</u>	<u>1</u> 18	<u>1</u> 12

Calculate the total fraction of the class that chose:

- a) sports played with a ball
- b) sports played on a court
- c) winter sports
- d) sports that use a net

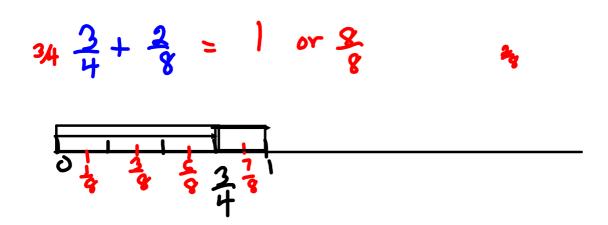
b) played on a court
$$\frac{1}{3} + \frac{1}{3} = \frac{7}{36}$$

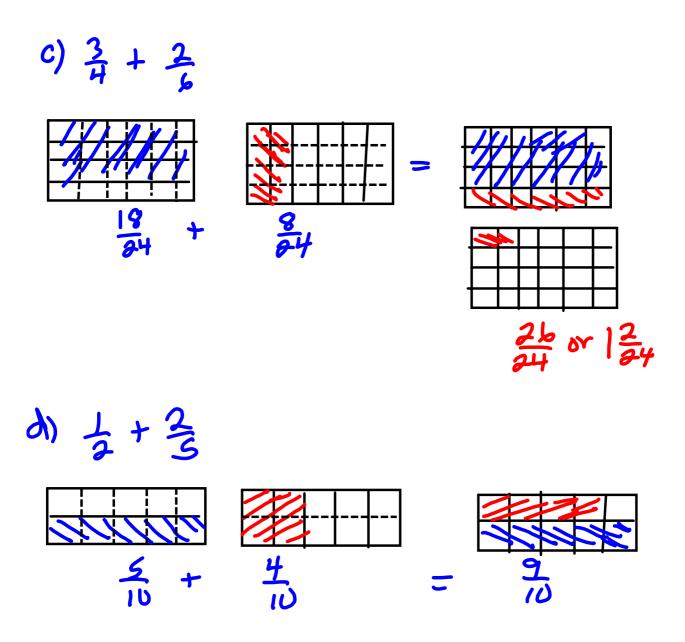
d) uses a net
$$\frac{1}{9}$$
 $\frac{1}{3}$ $\frac{1}{12}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{19}{3}$ $\frac{19}{3}$ $\frac{19}{3}$ $\frac{19}{3}$

6. Which sum is greater? How do you know? $\frac{7}{0} + \frac{3}{4}$ or $\frac{5}{0} + \frac{3}{6}$

6.
$$\frac{7}{8} + \frac{3}{4}$$
 or $\frac{5}{6} + \frac{3}{5}$
 $\frac{7}{4} > \frac{3}{5}$ so $\frac{7}{8} + \frac{3}{4}$ is a

Orally discuss
$$p_{3}$$
 p_{3} p_{4} p_{5} p_{5} p_{7} p_{7}

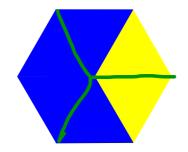




Using Models to Subtracting Fractions

Let's use pattern blocks...

$$\frac{2 \times 2}{3 \times 3} - \frac{1 \times 3}{2 \times 3} = \frac{1}{6}$$
 Need C.D.



from the blue remove 3/6, what part of the blue is left?

Subtracting Fractions with Modelling

Use Fraction Blocks/Circles to model:

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

When we started to add fractions with models we discovered that common denominators helped us, will it help with subtraction?

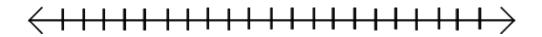
Model both and break into the same amount of pieces (common denominator).

The second fraction is just to show how many you subtract from the first.

To subtract circle the blocks in the first fraction and use an arrow to show subtract.

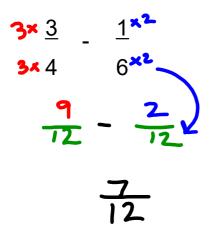
Number line Method

- $\underline{2}$ $\underline{1}$ Use the common denominators to help
- 3 2



Subtracting Fractions with Modelling

Use Fraction Blocks/Circles to model:



When we started to add fractions with models we discovered that common denominators helped us, will it help with subtraction?

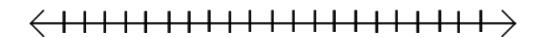
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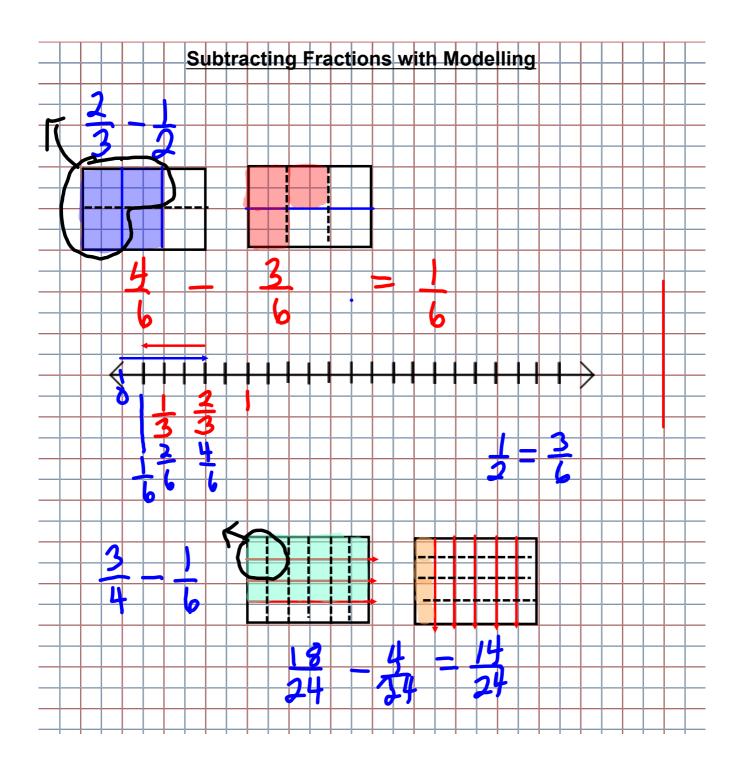
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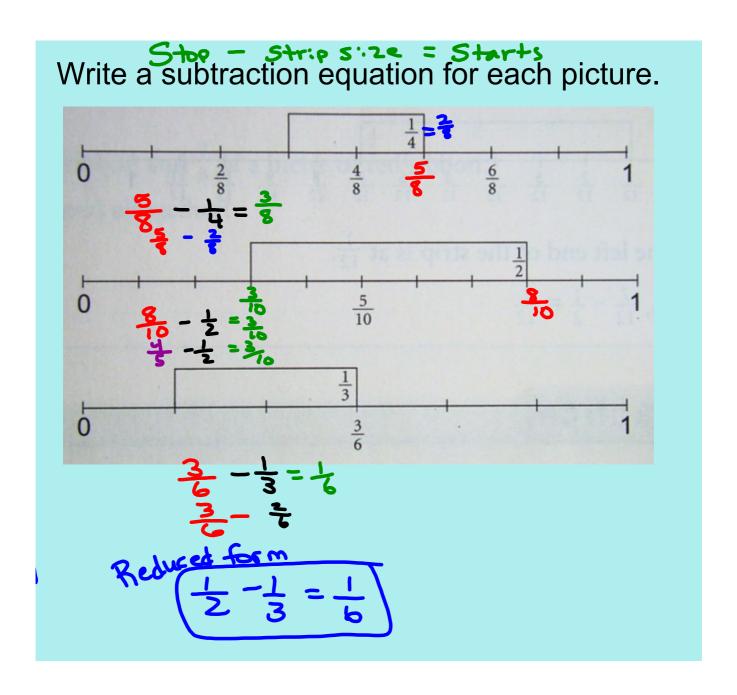
To subtract circle the blocks in the first fraction and use an arrow to show subtract.

Number line Method

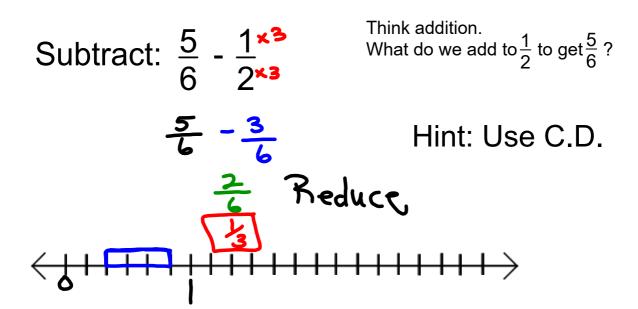
Use the common denominators to help

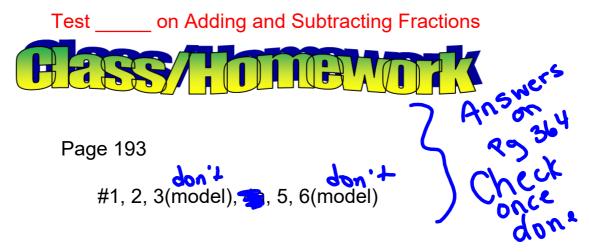






Write a subtract using a number line (and Fraction Strips)





For number 2 work it out but also use the thing below to answer