Grade 7 - Mathematics

DBE and textbook – Lockdown 4
Practice work on PowerPoint

Adding and Subtracting Fractions

Warm up

What is the lowest common multiple of:

3 and 4	1
5 and 6	3
4 and 6	1
3 and 8	2
5 and 10	1

Find a the missing numbers

$$\frac{2}{5} = \frac{\boxed{6}}{15}$$

$$\frac{3}{8} = \frac{\boxed{1}}{40}$$

$$\frac{5}{6} = \frac{25}{\boxed{3}}$$

Adding and Subtracting Fractions

Two rulers add three rulers is: 5 rulers

Four pens add five pens is: 9 pens

Two pens add Five rulers is: 7 Pieces of equipment

We can't so this until we have a name
 that describes both groups

When we add fractions we need them to have the same name

Adding and Subtracting Fractions

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

$$\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$$

$$\frac{1}{11} + \frac{3}{11} = \frac{4}{11}$$

Adding and Subtracting Fractions

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

$$\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$$

$$\frac{5}{11} - \frac{3}{11} = \frac{2}{11}$$

Adding and Subtracting Fractions

We need to make sure the denominator of both fractions is the same before we add or subtract

$$\frac{2}{5} + \frac{3}{10} =$$

We need a number in the 5 and 10 times table to use as our bottom number- 10?

$$\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$

Adding and Subtracting Fractions

We need to make sure the denominator of both fractions is the same before we add or subtract

$$\frac{1}{3} + \frac{5}{12} =$$

We need a number in the 3 and 12 times table to use as our bottom number- 12?

$$\frac{4}{12} + \frac{5}{12} = \frac{9}{12}$$

Adding and Subtracting Fractions

We need to make sure the denominator of both fractions is the same before we add or subtract

$$\frac{2}{5} + \frac{3}{6} =$$

We need a number in the 5 and 6 times table to use as our bottom number- 30?

$$\frac{12}{30} + \frac{15}{30} = \frac{27}{30}$$

Adding and Subtracting Fractions

We need to make sure the denominator of both fractions is the same before we add or subtract

$$\frac{7}{8} - \frac{2}{3} =$$

We need a number in the 8 and 3 times table to use as our bottom number- 24?

$$\frac{21}{24} - \frac{16}{24} = \frac{5}{24}$$

Adding and Subtracting Fr

1. Work out:

a. $\dfrac{1}{8} + \dfrac{3}{4} =$

b. $\dfrac{5}{12} + \dfrac{1}{4} =$

c. $\dfrac{4}{9} + \dfrac{1}{3} =$

d. $\dfrac{2}{5} + \dfrac{3}{10} =$

e. $\dfrac{3}{7} + \dfrac{5}{21} =$

2. Work out:

a. $\dfrac{1}{4} + \dfrac{2}{3} =$

b. $\dfrac{1}{5} + \dfrac{1}{2} =$

c. $\dfrac{1}{3} + \dfrac{1}{5} =$

d. $\dfrac{5}{6} + \dfrac{2}{4} =$

e. $\dfrac{1}{8} + \dfrac{1}{3} =$

3. Work out:

a. $\dfrac{3}{4} + \dfrac{5}{6} =$

b. $\dfrac{5}{7} + \dfrac{3}{8} =$

c. $\dfrac{2}{12} + \dfrac{4}{5} =$

d. $\dfrac{4}{13} + \dfrac{1}{4} =$

e. $\dfrac{6}{15} + \dfrac{7}{10} =$

1. Wor

2. Work

a

b

c.

d

e

Click for answers

a) 7/8
b) 8/12
c) 7/9
d) 7/10
e) 2/3

f) 11/12
g) 7/10
h) 8/15
i) 16/12 or 1 ¼
j) 11/24

a) 1 7/12
b) 1   5/56
c) 29/30
d) 29/52
e) 1   1/10

f) 5/8
g) 5/12
h) 1/3
i) 2/5
j) 1/2

k) 7/20
l) 8/21
m) 23/36
n) 9/22
o) 71/126

Now do page 80 and 81 in your DBE books