

Practice Long Response

Fraction test

[2]

1) Multiply. Draw a picture or use a number line to show each product.

$3 \times \frac{5}{7} = \frac{15}{7}$ Hint: chocolates in box moving around
 $= 2 \frac{1}{7}$

OR

b) $\frac{2}{5} \times \frac{1}{4} = \frac{2}{20}$
 $= \frac{1}{10}$

[1]

2) Divide using a number line or boxes with different colors(State the final answer and reduce)

a) $2 \div \frac{3}{7} = 4 \frac{2}{3}$

$2 \times \frac{7}{3} = \frac{14}{3} = 4 \frac{2}{3}$

[3]

3) Evaluate. (Express answers in lowest terms & Show work)

[12]

a) $6 \div \frac{5}{7}$

$$\frac{6}{1} \times \frac{7}{5}$$

$$\frac{42}{5}$$

$$8 \frac{2}{5}$$

b) $\frac{5}{12} \times \frac{2}{7} = \frac{10}{84}$

$$= \frac{5}{42}$$

c) $3 \frac{5}{9} \times 2 \frac{3}{4}$

$$\frac{32}{9} \times \frac{11}{4}$$

$$\frac{352}{36} \div 4$$

$$\frac{88}{9} = 9 \frac{7}{9}$$

or $\frac{32 \div 4}{9} \times \frac{11}{4 \div 4}$

$$\frac{8 \times 11}{9 \times 1}$$

d) $7 \frac{1}{5} \div 2 \frac{7}{9}$

$$\frac{36}{5} \div \frac{25}{9}$$

$$\frac{36}{5} \times \frac{9}{25}$$

$$\frac{324}{125}$$

$$2 \frac{74}{125}$$

e) $5 \frac{4}{9} \times 1 \frac{3}{8}$

$$\frac{49}{9} \times \frac{11}{8}$$

$$\frac{539}{72}$$

$$7 \frac{35}{72}$$

f) $\frac{9}{14} \div \frac{6}{7}$

$$\frac{9}{14} \times \frac{7}{6}$$

$$\frac{63}{84} \div 7$$

$$\frac{9}{12} \div 3$$

$$\frac{12}{12} \div 3$$

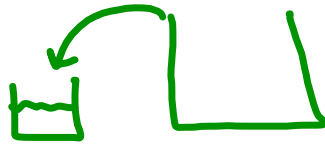
$$\frac{3}{4}$$

or $\frac{9 \div 3}{14 \div 7} \times \frac{7 \div 7}{6 \div 3}$

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

$$\frac{3}{4}$$

Show all work



4) A small cup holds $\frac{5}{9}$ cups of water. A large water cooler holds a TOTAL of 30 cups of water. [3]

given total 30 ÷

a) How many small cups can be filled from the water in the water?

$$30 \div \frac{5}{9}$$

$$30 \times \frac{9}{5}$$

$$\frac{270}{5}$$

$$54$$

54 small cups
can be filled
from the
water cooler.

5. work out $\frac{7}{12} \div \frac{1}{4}$

$$\frac{7}{12} \times \frac{4}{1} = \frac{28}{12} = \frac{14}{6} = \frac{7}{3} = 2\frac{1}{3}$$

6) Evaluate (Show work)

B E D M A S
Need Common Denominators

[5]

a) $\frac{5}{9} \div \left(\frac{1}{2} \times \frac{7}{9} \right) + \frac{3}{4} \div \frac{1}{5}$

$$\frac{5}{9} \div \frac{7}{18} + \frac{3}{4} \div \frac{1}{5}$$

$$\frac{5}{9} \times \frac{18}{7} + \frac{3}{4} \div \frac{1}{5}$$

$$\frac{90 \div 9}{63 \div 9} + \frac{3}{4} \div \frac{1}{5}$$

$$\frac{10}{7} + \frac{3}{4} \div \frac{1}{5}$$

$$\frac{10}{7} + \frac{3}{4} \times \frac{5}{1}$$

$$\frac{10}{7} + \frac{15}{4} \text{ Need C.D}$$

$$\frac{40}{28} + \frac{105}{28}$$

$$\frac{145}{28}$$

$$5\frac{5}{28}$$