

## Year 6 Home Learning – Maths Week 11

Arithmetic Practice – Set a 5 minute timer to complete the 5 questions in each section. You don't have to do all 25 questions in 5 minutes! You can do one section per day or do all at once – but make sure you set your timer for 25 minutes instead! If you have forgotten a method, let me know and I will create a short video to help you remember!

A

1.  $\frac{3}{5} - \frac{1}{10} = \frac{5}{10} = \frac{1}{2}$

2.  $1.45 \times 3 = 4.35$

3.  $7,894 - 4,036 = 3,858$

4.  $\frac{3}{4} \times 12 = 9$

5.  $65 \times 23 = 1495$

6.  $6 + 3 \times 8 + 2 = 32$

B

1.  $6 \times 80 = 480$

2.  $6218 \times 3 = 18,654$

3.  $19 + 27 = 46$

4.  $84 \times 3 = 252$

5.  $981 + 34,894 = 35,875$

6.  $183 \times 100 = 18,300$

C

1.  $562 \div 8 = 70 \text{ r}2$

2.  $569 \times 8 = 6368$

3.  $654 \div 100 = 6.54$

4.  $87 - 29 = 58$

5.  $55\% \text{ of } 100 = 55$

6.  $98 + 165 = 263$

D

1.  $675 \div 6 = 112 \text{ r}3$

2.  $604 - 176 = 428$

3.  $76.439 + 67.842 = 144.281$

4.  $1.8 \div 0.2 = 9$

5.  $654 + 230 = 884$

6.  $560 \div 8 = 70$

E

1.  $900 \times 80 = 72,000$

2.  $6,549 \times 3 = 19,647$

3.  $5 = \frac{1}{5} \times 25$

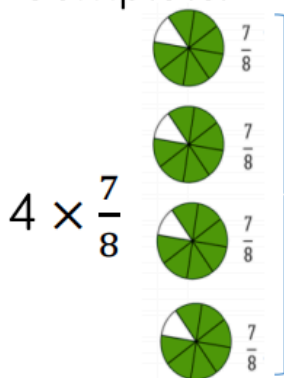
4.  $650 \times 4 = 2,616$

5.  $56,789 - 1,294.76 = 55,494.24$

6.  $8^2 \times 2 = 128$

# Lesson 1

Complete:



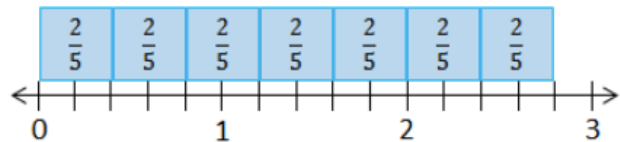
$$\frac{28}{8} = 3 \frac{4}{8}$$

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




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

$$\frac{2}{5} \times 7$$



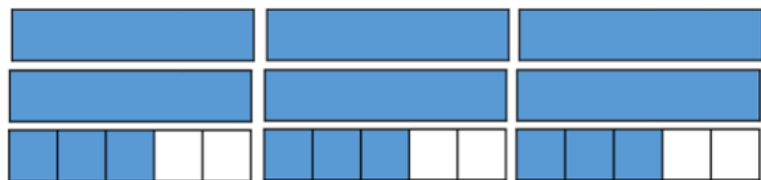
$$\frac{14}{5} = 2 \frac{4}{5}$$

Eva partitions  $2 \frac{3}{5}$  to help her to calculate  $2 \frac{3}{5} \times 3$  

$$2 \times 3 = 6$$

$$\frac{3}{5} \times 3 = \frac{9}{5} = 1 \frac{4}{5}$$

$$6 + 1 \frac{4}{5} = 7 \frac{4}{5}$$



Use Eva's method to calculate:

$$2 \frac{5}{6} \times 3$$

$$2 \times 3 = 6$$

$$\frac{5}{6} \times 3 = \frac{15}{6}$$

$$6 + \frac{15}{6} = 6 \frac{15}{6} = 8 \frac{3}{6} = 8 \frac{1}{2}$$

$$1 \frac{3}{7} \times 5$$

$$1 \times 5 = 5$$

$$\frac{3}{7} \times 5 = \frac{15}{7}$$

$$5 + \frac{15}{7} = 5 \frac{15}{7} = 7 \frac{1}{7}$$

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

$$2 \times 3 = 6$$

$$\frac{2}{3} \times 3 = \frac{6}{3}$$

$$6 + \frac{6}{3} = 6 \frac{6}{3} = 8$$

$$4 \times 1 \frac{1}{6}$$

$$4 \times 1 = 4$$

$$4 \times \frac{1}{6} = \frac{4}{6}$$

$$4 + \frac{4}{6} = 4 \frac{4}{6} = 4 \frac{2}{3}$$

Convert the mixed number to an improper fraction to multiply.

$$2 \frac{3}{5} \times 3 = \frac{13}{5} \times 3 = \frac{39}{5} = 7 \frac{4}{5}$$

Use this method to calculate:

$$3 \times 2 \frac{2}{5}$$

$$2 \frac{2}{5} = \frac{12}{5}$$

$$\frac{12}{5} \times 3 = \frac{36}{5} = 7 \frac{1}{5}$$

$$1 \frac{5}{7} \times 3$$

$$1 \frac{5}{7} = \frac{12}{7}$$

$$\frac{12}{7} \times 3 = \frac{36}{7} = 5 \frac{1}{7}$$

$$2 \times 1 \frac{3}{4}$$

$$1 \frac{3}{4} = \frac{7}{4}$$

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

$$2 \times 1 \frac{1}{6}$$

$$1 \frac{1}{6} = \frac{7}{6}$$

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

Lesson 2

Dexter has  $\frac{2}{5}$  of a chocolate bar. He shares it with his friend. What fraction of the chocolate bar do they each get?  $\frac{2}{5} \div 2 = \frac{1}{5}$



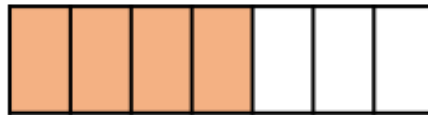
Use the diagrams to help you calculate.

$$\frac{3}{4} \div 3 =$$



$$\frac{3}{4} \div 3 = \frac{1}{4}$$

$$\frac{4}{7} \div 4 =$$



$$\frac{4}{7} \div 4 = \frac{1}{7}$$

$$\frac{4}{7} \div 2 =$$



$$\frac{4}{7} \div 2 = \frac{2}{7}$$

Complete the missing integers.

$$\frac{15}{16} \div \boxed{3} = \frac{5}{16}$$

$$\frac{15}{16} \div \boxed{5} = \frac{3}{16}$$

$$\frac{20}{23} \div \boxed{5} = \frac{4}{23}$$

$$\frac{20}{23} \div \boxed{4} = \frac{5}{23}$$

Rosie walks for  $\frac{3}{4}$  of an hour over 3 days.

She walks for the same amount of time each day.

How many minutes does Rosie walk each day?

$$\frac{3}{4} \div 3 = \frac{1}{4}$$

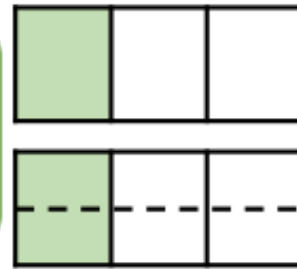
$\frac{1}{4}$  of 60 minutes = 15 minutes

Mo is dividing  $\frac{1}{3}$  by 2



I have divided one third into 2 equal parts. Each part is worth  $\frac{1}{6}$

$$\frac{1}{3} \div 2 = \frac{1}{6}$$



Draw diagrams to calculate:

$$\frac{1}{3} \div 3 = \quad \frac{2}{3} \div 3 = \quad \frac{1}{5} \div 3 = \quad \frac{2}{5} \div 3 =$$

$$\frac{1}{3} \div 3 = \frac{1}{9} \quad \frac{2}{3} \div 3 = \frac{2}{9} \quad \frac{1}{5} \div 3 = \frac{1}{15} \quad \frac{2}{5} \div 3 = \frac{2}{15}$$

Annie is dividing  $\frac{2}{3}$  by 4



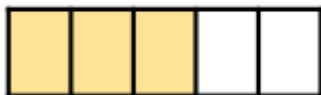
The numerator isn't a multiple of the integer I am dividing by so I will find an equivalent fraction to help me divide the numerator equally.



$$\frac{2}{3} = \frac{4}{6} \quad \frac{4}{6} \div 4 = \frac{1}{6}$$

Find equivalent fractions to calculate:

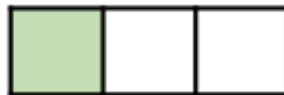
$$\frac{3}{5} \div 2$$



$$\frac{3}{5} = \frac{6}{10}$$

$$\frac{6}{10} \div 2 = \frac{3}{10}$$

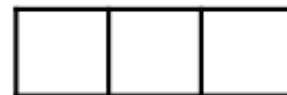
$$\frac{1}{3} \div 3$$



$$\frac{1}{3} = \frac{3}{9}$$

$$\frac{3}{9} \div 3 = \frac{1}{9}$$

$$\frac{2}{3} \div 3$$



$$\frac{2}{3} = \frac{6}{9}$$

$$\frac{6}{9} \div 3 = \frac{2}{9}$$