

# N41 Dividing Fractions and Mixed Numbers

OCR

12 (a) Write  $\frac{5}{6}$  as a recurring decimal.

N45

(a) ..... [2]

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N45

$$\begin{array}{r} 0.833 \\ \hline 6 \overline{) 5.5000} \end{array}$$

(a)  $0.\dot{8}3$  ..... [2]

6 Sally has 30 feet of ribbon.

N39 She cuts strips each of length  $2\frac{2}{5}$  feet from the ribbon.

N41 Sally says

I can cut 13 of these strips from this ribbon.

Is she correct?  
Show how you decide.

..... [4]

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$$30 \div 2\frac{2}{5}$$

$$\frac{30}{1} \div \frac{12}{5}$$

$$\frac{30}{1} \times \frac{5}{12} = \frac{150}{12} = 12\frac{6}{12} = 12\frac{1}{2}$$

No,  $31\frac{1}{5} > 30$  feet

$12\frac{1}{2} < 13$  strips ✓

$$\begin{array}{r} 12 \\ \times 13 \\ \hline 36 \\ 120 \\ \hline 156 \end{array}$$

$$2\frac{2}{5} \times \frac{13}{1}$$

$$\frac{12}{5} \times \frac{13}{1} = \frac{156}{5}$$

$$= 31\frac{1}{5}$$

Edexcel

18 (a) Work out  $\frac{1}{7} \div \frac{3}{4}$

N41

.....  
(2)

18 (a) Work out  $\frac{1}{7} \div \frac{3}{4}$

N41

$$\frac{1}{7} \times \frac{4}{3} = \frac{4}{21}$$

$$\frac{4}{21}$$

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✓ (2)

(b) Work out  $1\frac{1}{5} \div \frac{3}{4}$

*N41* Give your answer as a mixed number in its simplest form.

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N41 Give your answer as a mixed number in its simplest form.

$$1\frac{1}{5} \div \frac{3}{4}$$

$$1\frac{1}{5} \times \frac{4}{3} = \frac{24}{15} = 1\frac{9}{15}$$

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

(2)

AQA

25 Work out  $8\frac{1}{2} \div 2\frac{2}{3}$

**N41** Give your answer as a mixed number.

**[4 marks]**

Answer \_\_\_\_\_

