N41 Dividing Fractions and Mixed Numbers

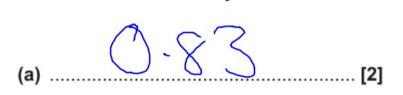# OCR

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

N45

(a) .... **[2]**

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

N45

$$6 \overline{)5.0^50^20^20}$$

0.833

(a) .... $0.8\dot{3}$ .... **[2]**

6   Sally has 30 feet of ribbon.

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

Sally says

I can cut 13 of these strips from this ribbon.

Is she correct?
Show how you decide.

.... **[4]**

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.

$$12 \times 13$$
$$\begin{array}{r} 36 \\ 1\ 2\ 0 \\ \hline 156 \end{array}$$

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

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

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

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

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

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

$No, \ 31\frac{1}{5} > 30 \ feet$ ...... **[4]**

$12\frac{1}{2} < 13 \ strips$ ✓ ✓

Edexcel

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

N41

....

(2)

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

N41

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

$\dfrac{4}{21}$

✓ (2)

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

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

....

(2)

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

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

$$\frac{6}{5} \div \frac{3}{4}$$

$$\frac{6}{5} \times \frac{4}{3} = \frac{24}{15} = 1\frac{9}{15}$$

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

(2)

AQA

25

N41

Work out $\quad 8\dfrac{1}{2} \div 2\dfrac{2}{3}$

Give your answer as a mixed number.

[4 marks]

Answer _____

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

N41

Give your answer as a mixed number.

[4 marks]

$$\dfrac{17}{2} \div \dfrac{8}{3}$$

$$\dfrac{17}{2} \times \dfrac{3}{8} = \dfrac{51}{16} = 3\dfrac{3}{16}$$

Answer $\underline{\qquad 3\dfrac{3}{16} \qquad}$ ✓