

Maths Day 1 - Starter

1. 1,2,3,6,13,26,39,78	2. 1,2,3,6,7,14,21,42	3. Factors of 29	4. 1,2,5,7,10,14,35,70	5. 1,3,7,9,21,63
6. 1,29	7. Factors of 78	8. 1,5,7,35	9. Factors of 63	10. 1,2,31,62
11. Factors of 77	12. 1,7,11,77	13. Factors of 52	14. 1,2,4,13,26,52	15. Factors of 62
16. Factors of 35	17. 1,2,4,7,8,14,28,56	18. Factors of 42	19. Factors of 56	20. Factors of 70

Maths Day 1 – Multiplying Fractions by Integers

Video Link: <https://vimeo.com/475426110>

Slide 3 is pitched at *

Slide 5 is pitched at **/**

Remember to send any work or queries to njs.year6@taw.org.uk for some teacher feedback.

Use bar models to help you.

a) $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \square$

$3 \times \frac{1}{5} = \square$

b) $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \square$

$4 \times \frac{1}{7} = \square$

c) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \square$

$5 \times \frac{1}{8} = \square$

d) $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \square$

$7 \times \frac{1}{10} = \square$

2 Complete the multiplications.

a) $3 \times \frac{1}{8} = \square$

e) $\frac{1}{5} \times 4 = \square$

b) $3 \times \frac{1}{10} = \square$

f) $\frac{1}{9} \times 8 = \square$

c) $\frac{1}{8} \times 5 = \square$

g) $8 \times \frac{1}{11} = \square$

d) $9 \times \frac{1}{10} = \square$

h) $\frac{1}{11} \times 10 = \square$



$$\frac{1}{3} + \frac{1}{3}$$

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

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$$

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

$$\frac{1}{5} + \frac{1}{5}$$

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

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

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

4 A pizza is cut into sixths.

Jack eats five of the slices.

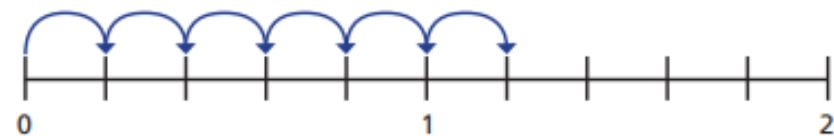
Write a multiplication to represent this.

5 Complete the multiplications.

Use the number lines to help you.

Give each answer as an improper fraction and as a mixed number.

a)

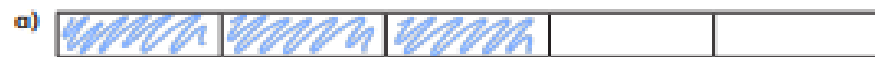


$6 \times \frac{1}{5} = \square = \square$

Multiply unit fractions by an integer

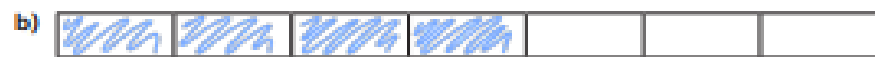
1 Complete the calculations.

Use the bar models to help you.



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

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



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

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



$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$$

$$5 \times \frac{1}{8} = \frac{5}{8}$$



$$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{7}{10}$$

$$7 \times \frac{1}{10} = \frac{7}{10}$$



2 Complete the multiplications.

a) $3 \times \frac{1}{8} = \frac{3}{8}$

e) $\frac{1}{5} \times 4 = \frac{4}{5}$

b) $3 \times \frac{1}{10} = \frac{3}{10}$

f) $\frac{1}{9} \times 8 = \frac{8}{9}$

c) $\frac{1}{6} \times 5 = \frac{5}{6}$

g) $8 \times \frac{1}{11} = \frac{8}{11}$

d) $9 \times \frac{1}{10} = \frac{9}{10}$

h) $\frac{1}{11} \times 10 = \frac{10}{11}$

3 Match the addition to the equivalent multiplication.

$$\frac{1}{3} + \frac{1}{3}$$

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

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$$

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

$$\frac{1}{5} + \frac{1}{5}$$

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

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

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

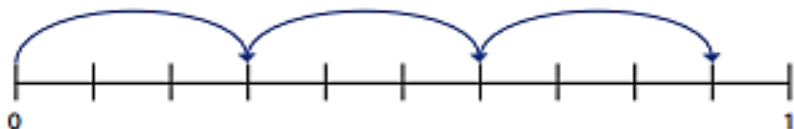
1 Complete the calculations.

a)

$$\frac{2}{7} \times 2 = \square$$

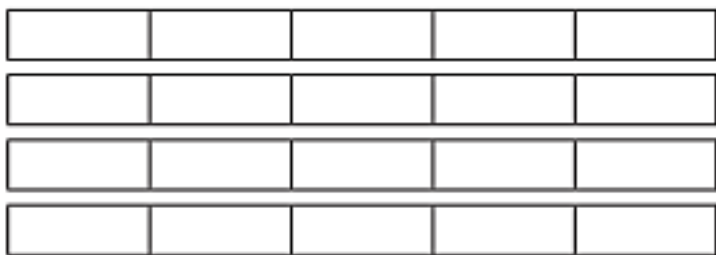


b)



$$3 \times \frac{3}{10} = \square$$

2 a) Shade the bar models to show $\frac{2}{5} \times 4$



b) Work out the multiplication.

$$\frac{2}{5} \times 4$$

3 Complete the calculations.

$$\text{a) } \frac{1}{3} \times 1 \qquad \frac{1}{3} \times 2 \qquad \frac{1}{3} \times 3$$

$$\frac{1}{3} \times 4 \qquad \frac{1}{3} \times 5 \qquad \frac{1}{3} \times 6$$

$$\text{b) } \frac{3}{4} \times 1 \qquad \frac{3}{4} \times 2 \qquad \frac{3}{4} \times 3$$

$$\frac{3}{4} \times 4 \qquad \frac{3}{4} \times 5 \qquad \frac{3}{4} \times 6$$

What patterns do you notice?

4 Complete the multiplication.

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

What method did you use? Is there a different method you could have used?

6 Write each answer as a mixed number in its simplest form.

$$\text{a) } 1\frac{1}{5} \times 2$$

$$\text{d) } 2\frac{2}{5} \times 5$$

$$\text{b) } 2\frac{1}{6} \times 3$$

$$\text{e) } 7 \times 3\frac{1}{2}$$

$$\text{c) } 2\frac{2}{5} \times 4$$

$$\text{f) } \frac{11}{15} \times 7$$



Multiply fractions by integers

1 Complete the calculations.

a)

$$\frac{2}{7} \times 2 = \boxed{\frac{4}{7}}$$

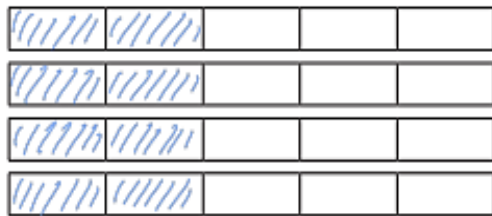


b)



$$3 \times \frac{3}{10} = \boxed{\frac{9}{10}}$$

2 a) Shade the bar models to show $\frac{2}{5} \times 4$



b) Complete the multiplication.

$$\frac{2}{5} \times 4 = \boxed{\frac{8}{5}} = \boxed{1\frac{3}{5}}$$

3 Complete the calculations.

a) $\frac{1}{3} \times 1 = \boxed{\frac{1}{3}}$

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

$$\frac{1}{3} \times 3 = \boxed{1}$$

$$\frac{1}{3} \times 4 = \boxed{1\frac{1}{3}}$$

$$\frac{1}{3} \times 5 = \boxed{1\frac{2}{3}}$$

$$\frac{1}{3} \times 6 = \boxed{2}$$

b) $\frac{3}{4} \times 1 = \boxed{\frac{3}{4}}$

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

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

$$\frac{3}{4} \times 4 = \boxed{3}$$

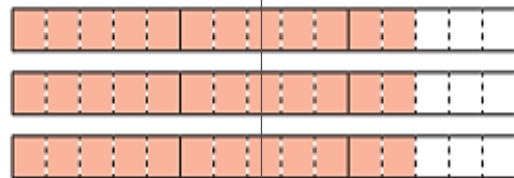
$$\frac{3}{4} \times 5 = \boxed{3\frac{3}{4}}$$

$$\frac{3}{4} \times 6 = \boxed{4\frac{1}{2}}$$

What patterns do you notice?

4 Complete the multiplication.

$$2\frac{2}{5} \times 3 = \boxed{7\frac{1}{5}}$$



What method did you use? Is there a different method you could have used?

6 Write each answer as a mixed number in its simplest form.

a) $1\frac{1}{5} \times 2 = \boxed{2\frac{2}{5}}$

d) $2\frac{2}{5} \times 5 = \boxed{12}$

b) $2\frac{1}{6} \times 3 = \boxed{6\frac{1}{2}}$

e) $7 \times 3\frac{1}{2} = \boxed{24\frac{1}{2}}$

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

f) $\frac{11}{15} \times 7 = \boxed{5\frac{2}{15}}$

Fancy a bit of extra maths?

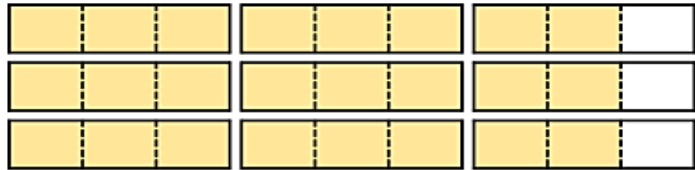
Flashback

4

Year 6 | Week 9 | Day 3

CCCXXVII

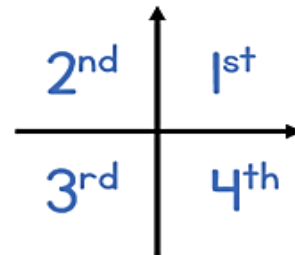
1) Multiply $2\frac{2}{3}$ by 3



2) What is $\frac{1}{2} + \frac{1}{3}$?

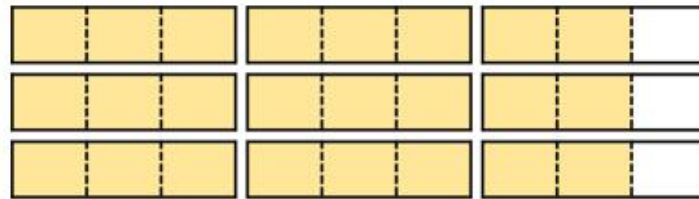
3) Calculate $100 - 2 \times (18 + 2)$

4) Which quadrant is $(-5, -5)$ in?



CCCXXVII

1) Multiply $2\frac{2}{3}$ by 3 8



2) What is $\frac{1}{2} + \frac{1}{3}$? $\frac{5}{6}$

3) Calculate $100 - 2 \times (18 + 2)$ 60

4) Which quadrant is $(-5, -5)$ in?

3rd