

DR BAKER'S YEAR 5 MATHS
TUESDAY 5TH MAY



WELCOME

Good Morning. Time for Tuesday Tables. As usual answers only in your books. If you finish these really easily you can also practise your tables on Rockstars.

$3 \times 9 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$

$12 \times 12 = \underline{\quad}$

$6 \times 12 = \underline{\quad}$

$12 \times 8 = \underline{\quad}$

$12 \times 7 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$6 \times 12 = \underline{\quad}$

$7 \times 1 = \underline{\quad}$

$12 \times 9 = \underline{\quad}$

$4 \times 12 = \underline{\quad}$

$8 \times 12 = \underline{\quad}$

$8 \times 10 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$7 \times 12 = \underline{\quad}$

$6 \times 10 = \underline{\quad}$

TASKS FOR TODAY

L.O. To multiply whole numbers by fractions.

Tomorrow we are going to find percentages of amounts. With what we know at the minute the easiest way to do this is to turn our percentage to a fraction and multiply by it. To be able to do this we need to remember how to multiply by fractions. We have done this in class and it was often on the arithmetic test in school but some of you may have forgotten so we are going to recap today. If you find this really easy then great - you will be all set for tomorrow. If not hopefully you will have it all sorted after today.

When we multiply a whole number by a fraction we just multiply the numerator (top of the fraction) by the whole number. The denominator stays the same.

For example $\frac{4}{5} \times 2 = \frac{4 \times 2}{5} = \frac{8}{5}$ or $6 \times \frac{3}{7} = \frac{6 \times 3}{7} = \frac{18}{7}$

Sometimes we can simplify the fraction at the end e.g. $\frac{2}{5} \times 10 = \frac{2 \times 10}{5} = \frac{20}{5} = \frac{4}{1} = 4$

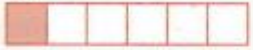
Because you can divide 20 and 5 by 5.

SET A

Set A

Use the diagrams below to help you work out:

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



2 $\frac{3}{10} \times 3$



Work out:

3 $\frac{2}{7} \times 2$

4 $\frac{7}{100} \times 9$

Work out, giving your answers as mixed numbers:

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

6 $\frac{4}{5} \times 2$

7 $\frac{3}{4} \times 3$

8 $\frac{2}{3} \times 4$

Katya knits $\frac{2}{5}$ of a scarf each week.

- 9 How much of the scarf will Katya knit in 2 weeks?
- 10 How many scarves could Katya knit in 10 weeks?

Each day, Gordon eats $\frac{1}{8}$ of a box of cereal.

Giving your answers as mixed numbers, how many boxes of cereal will he eat in:

- 11 8 days?
- 12 15 days?
- 13 A baker uses $\frac{2}{5}$ of a bag of flour for each loaf of bread. How much flour will he need for 8 loaves? Give your answer as a mixed number.

The last three questions ask you to write your answers as mixed numbers. See if you can remember how to do this. If not I have put the improper fractions as well.

SET B

Multiply these fractions by whole numbers. Simplify them or write them as mixed numbers where necessary.

$$1) \quad \frac{2}{3} \times 5 =$$

$$2) \quad \frac{1}{6} \times 16 =$$

$$3) \quad \frac{6}{9} \times 11 =$$

$$4) \quad \frac{2}{9} \times 20 =$$

$$5) \quad \frac{5}{8} \times 5 =$$

$$6) \quad \frac{6}{8} \times 6 =$$

$$7) \quad \frac{2}{4} \times 12 =$$

$$8) \quad \frac{2}{10} \times 6 =$$

$$9) \quad \frac{2}{7} \times 4 =$$

$$10) \quad \frac{3}{9} \times 10 =$$

SET C

In some of these questions you have to multiply by mixed fractions. You can either turn them into improper fractions first or multiply the whole number part and the fractional part separately and put them back together in the answer. See which works best for you,

Set C

Work out, giving your answers as mixed numbers:

- 1 $\frac{3}{5} \times 4$
- 2 $\frac{3}{4} \times 9$
- 3 $\frac{2}{7} \times 10$
- 4 $\frac{4}{9} \times 12$

Work out, giving your answers as mixed numbers:

- 5 $1\frac{1}{8} \times 5$
- 6 $1\frac{2}{7} \times 4$
- 7 $2\frac{2}{5} \times 9$
- 8 $4\frac{1}{6} \times 10$

What number is:

- 9 $3\frac{1}{4}$ times as big as 60?
- 10 $5\frac{4}{7}$ times as big as 70?

- 11 Naveen's rose bush is 60 cm tall. His sunflower is $1\frac{4}{5}$ as tall. How tall is his sunflower?

Give your answers as mixed numbers:

Uri runs $4\frac{1}{4}$ laps of the playground every day. How many laps does he run in:

- 12 6 days?
- 13 10 days?
- 14 Suma puts $2\frac{1}{2}$ teaspoons of sugar in her cup of coffee. She drinks 9 cups of coffee in a week. How many teaspoons of sugar does she use?
- 15 Demi drinks $3\frac{2}{3}$ bottles of water every day. How many bottles will she drink in 7 days?
- 16 Kim can make $4\frac{5}{6}$ dresses with one roll of fabric. How many dresses can she make with 5 rolls of fabric?

SET A ANSWERS

1. $\frac{5}{6}$

2. $\frac{9}{10}$

3. $\frac{4}{7}$

4. $\frac{63}{100}$

5. $\frac{5}{2}$

6. $\frac{8}{5}$

7. $\frac{9}{4}$

8. $\frac{8}{3}$

9. $\frac{2}{5} \times 2 = \frac{4}{5}$

10. $\frac{2}{5} \times 10 = \frac{20}{5} = 4$

11. $\frac{8}{8} = 1$

12. $\frac{15}{8} = 1\frac{7}{8}$

13. $\frac{16}{5} = 3\frac{1}{5}$



SET B ANSWERS



$$1) \frac{2}{3} \times 5 = \frac{2 \times 5}{3 \times 1} = \frac{10}{3} = 3\frac{1}{3}$$

$$2) \frac{1}{6} \times 16 = \frac{1 \times 16}{6 \times 1} = \frac{16}{6} = \frac{8}{3} = 2\frac{2}{3}$$

$$3) \frac{6}{9} \times 11 = \frac{6 \times 11}{9 \times 1} = \frac{66}{9} = \frac{22}{3} = 7\frac{1}{3}$$

$$4) \frac{2}{9} \times 20 = \frac{2 \times 20}{9 \times 1} = \frac{40}{9} = 4\frac{4}{9}$$

$$5) \frac{5}{8} \times 5 = \frac{5 \times 5}{8 \times 1} = \frac{25}{8} = 3\frac{1}{8}$$

$$6) \frac{6}{8} \times 6 = \frac{6 \times 6}{8 \times 1} = \frac{36}{8} = \frac{9}{2} = 4\frac{1}{2}$$

$$7) \frac{2}{4} \times 12 = \frac{2 \times 12}{4 \times 1} = \frac{24}{4} = \frac{6}{1} = 6$$

$$8) \frac{2}{10} \times 6 = \frac{2 \times 6}{10 \times 1} = \frac{12}{10} = \frac{6}{5} = 1\frac{1}{5}$$

$$9) \frac{2}{7} \times 4 = \frac{2 \times 4}{7 \times 1} = \frac{8}{7} = 1\frac{1}{7}$$

$$10) \frac{3}{9} \times 10 = \frac{3 \times 10}{9 \times 1} = \frac{30}{9} = \frac{10}{3} = 3\frac{1}{3}$$

SET C ANSWERS

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

2. $\frac{27}{4} = 6\frac{3}{4}$

3. $\frac{20}{7} = 2\frac{6}{7}$

4. $\frac{48}{9} = 5\frac{3}{8}$

5. $5\frac{5}{8}$

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

7. $21\frac{3}{5}$

8. $41\frac{2}{3}$

9. 195

10. 390

11. 108cm

12. $25\frac{1}{2}$

13. $42\frac{1}{2}$

14. $22\frac{1}{2}$

15. $25\frac{2}{3}$

16. $24\frac{1}{6}$



REMEMBER:

- **Talk to someone on your network hand if you are worried about something.**
- **If nobody is listening to your worries or there is nobody to talk to, you can google Childline or call them on 08001111. Adults at Childline are used to talking to children with worries and can help you.**
- **If you feel unsafe at home or are worried that a friend is not safe, call Mrs Patchett on 07787261064.**