

Multiplying fractions

Year 6 and KS3 | Proper fractions

Name _____ Class _____ Date _____

Score ____ / 16

Multiply the numerators, multiply the denominators, then simplify. You may cancel common factors first.

Example: $\frac{1}{3} \times \frac{3}{4} = \frac{3}{12} = \frac{1}{4}$. Multiply the numerators and the denominators, then simplify.

Section A · Warm-up

1. $\frac{1}{2} * \frac{1}{3} =$

2. $\frac{1}{4} * \frac{2}{3} =$

3. $\frac{2}{5} * \frac{3}{4} =$

4. $\frac{3}{7} * \frac{1}{2} =$

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

6. $\frac{5}{6} * \frac{2}{5} =$

7. $\frac{3}{10} * \frac{5}{8} =$

8. $\frac{2}{3} * \frac{3}{5} =$

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Section B · Simplify your answers

9. $\frac{4}{7} * \frac{7}{8} =$

10. $\frac{3}{4} * \frac{2}{9} =$

11. $\frac{5}{12} * \frac{6}{7} =$

12. $\frac{7}{10} * \frac{5}{14} =$

13. $\frac{2}{9} * \frac{3}{4} =$

14. $\frac{5}{8} * \frac{4}{5} =$

15. $\frac{3}{5} * \frac{5}{6} =$

16. $\frac{7}{9} * \frac{3}{7} =$

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Check each answer and its method. Equivalent forms are correct unless a question asks for a particular form or degree of accuracy.

Section A · Warm-up

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

Multiply numerators and denominators: $\frac{1}{6} = \frac{1}{6}$.

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

Multiply numerators and denominators: $\frac{2}{12} = \frac{1}{6}$.

3. $\frac{3}{10}$

Multiply numerators and denominators: $\frac{6}{20} = \frac{3}{10}$.

4. $\frac{3}{14}$

Multiply numerators and denominators: $\frac{3}{14} = \frac{3}{14}$.

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

Multiply numerators and denominators: $\frac{12}{72} = \frac{1}{6}$.

6. $\frac{1}{3}$

Multiply numerators and denominators: $\frac{10}{30} = \frac{1}{3}$.

7. $\frac{3}{16}$

Multiply numerators and denominators: $\frac{15}{80} = \frac{3}{16}$.

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

Multiply numerators and denominators: $\frac{6}{15} = \frac{2}{5}$.

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Section B · Simplify your answers

9. $\frac{1}{2}$

Multiply numerators and denominators: $\frac{28}{56} = \frac{1}{2}$.

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

Multiply numerators and denominators: $\frac{6}{36} = \frac{1}{6}$.

11. $\frac{5}{14}$

Multiply numerators and denominators: $\frac{30}{84} = \frac{5}{14}$.

12. $\frac{1}{4}$

Multiply numerators and denominators: $\frac{35}{140} = \frac{1}{4}$.

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

Multiply numerators and denominators: $\frac{6}{36} = \frac{1}{6}$.

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

Multiply numerators and denominators: $\frac{20}{40} = \frac{1}{2}$.

15. $\frac{1}{2}$

Multiply numerators and denominators: $\frac{15}{30} = \frac{1}{2}$.

16. $\frac{1}{3}$

Multiply numerators and denominators: $\frac{21}{63} = \frac{1}{3}$.
