

YEAR 6 FRACTIONS | LEVEL 3 - CHALLENGE

Printable Practice Worksheet

Name: _____ Date: _____

A. Understanding Fractions

1. A ribbon is divided into 12 equal parts. 5 parts are blue and 4 are green. What fraction is neither blue nor green?

2. A number line from 0 to 2 is split into eighths. What fraction is three marks after 1?

3. A tank is $\frac{7}{10}$ full. After using $\frac{2}{5}$ of the whole tank, what fraction of the tank remains?

B. Equivalent Fractions

4. Complete: $\frac{9}{12} = \frac{\quad}{20}$. Explain how you know.

5. Find the missing denominator: $\frac{14}{21} = \frac{6}{\quad}$.

6. Two pupils say $\frac{18}{24}$ and $\frac{21}{28}$ are equivalent. Are they correct? Show why.

YEAR 6 FRACTIONS | LEVEL 3 - CHALLENGE

Printable Practice Worksheet

Name: _____ Date: _____

C. Simplifying Fractions

7. Simplify $\frac{42}{56}$ fully. State the greatest common factor you used.

8. A class has 18 girls and 12 boys. What fraction of the class are boys? Simplify.

9. A recipe uses $\frac{24}{36}$ of a cup of oats. Write this in simplest form.

D. Fraction of an Amount

10. A school has 240 pupils. $\frac{3}{8}$ join a sports club. Of those, $\frac{2}{3}$ choose swimming. How many choose swimming?

11. A shop sells $\frac{5}{6}$ of its 144 notebooks. It then sells $\frac{1}{4}$ of those sold notebooks in blue. How many blue notebooks?

12. $\frac{3}{5}$ of a number is 48. What is the whole number?

YEAR 6 FRACTIONS | LEVEL 3 - CHALLENGE

Printable Practice Worksheet

Name: _____ Date: _____

E. Adding and Subtracting Fractions

13. Calculate $\frac{5}{6} - \frac{3}{8}$. Give the simplest answer.

14. A hiker walks $\frac{3}{4}$ km, then $\frac{5}{6}$ km. How far in total? Give a mixed number.

15. A jug holds 2 litres. You pour out $\frac{5}{8}$ litre and then $\frac{3}{4}$ litre. How much remains?

F. Multiplying a Fraction by a Whole Number

16. Calculate $7 \times \frac{5}{12}$. Write your answer as a mixed number.

17. Each of 9 identical ropes is $\frac{3}{8}$ m long. What is their total length?

18. A baker needs $\frac{2}{3}$ kg of flour per cake. How much flour for 8 cakes?

YEAR 6 FRACTIONS | LEVEL 3 - CHALLENGE

Printable Practice Worksheet

Name: _____ Date: _____

G. Dividing a Fraction by a Whole Number

19. Share $\frac{5}{6}$ litre of juice equally between 4 cups. How much is in each cup?

20. A $\frac{3}{4}$ m ribbon is cut into 6 equal pieces. What is the length of each?

21. A runner covers $\frac{7}{8}$ km in 5 equal stages. How far is each stage?

H. Comparing and Ordering Fractions

22. Order from smallest to largest: $\frac{7}{12}$, $\frac{5}{8}$, $\frac{2}{3}$. Show common denominators.

23. Which is greater: $\frac{11}{15}$ or $\frac{3}{4}$? By how much?

24. Three runners complete $\frac{5}{6}$, $\frac{7}{9}$ and $\frac{4}{5}$ of a course. Who has completed the most? Explain.