Year 9 Fractions and Decimals – Mixed Practice

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Year 9 · Maths · Fraction and Decimal Calculations · Mixed practice · 30 questions

Name _____ **Date** _____

A. Mixed practice (mixed order)

1. Work out (1/4 − 1/5) ÷ 1/3.

Answer _____

2. Work out 1 3/4 × 1 1/7. Cancel before you multiply.

Answer _____

3. Work out 3 1/2 ÷ 1 1/6.

Answer _____

4. Without dividing, decide whether 9/28 is equal to a terminating or a recurring decimal. Explain.

Answer _____

5. Work out 1.68 ÷ 0.12.

Answer _____

6. Work out 4 1/2 − 4 4/9.

Answer _____

7. Estimate 4 1/5 × 2 1/3 by rounding each mixed number to the nearest whole number. Then work out the exact answer.

Answer _____

8. Without dividing, decide whether 3/12 is equal to a terminating or a recurring decimal. Explain.

Answer _____

9. Work out (1/4 + 2) × 5/6.

Answer _____

10. A recipe uses 1 1/3 cups of flour. Ivo makes 1 1/3 times the recipe. How many cups of flour does Ivo need?

Answer _____

11. Work out 1 3/4 − 1 1/3.

Answer _____

12. Dividing by 0.25 is the same as multiplying by which number? Use this to work out 2 ÷ 0.25.

Answer _____

13. Work out 16.8 ÷ 0.3.

Answer _____

14. Work out 4 5/8 × 4 6/7. Cancel before you multiply.

Answer _____

15. Write down the reciprocal of 0.008. Answer _____

16. Jade says every fraction with a denominator of 30 is a recurring decimal. Is Jade right? Explain.

Answer _____

17. Work out 2 5/6 ÷ 3 2/3.

Answer _____

18. Without dividing, decide whether 48/125 is equal to a terminating or a recurring decimal. Explain.

Answer _____

19. Dividing by 0.5 is the same as multiplying by which number? Use this to work out 1 ÷ 0.5.

Answer _____

20. Estimate 9.2 × 0.21 by rounding each number to 1 significant figure. Then work out the exact answer.

Answer _____

21. Work out 4 1/9 ÷ 3 2/9.

Answer _____

22. Kofi says 3/4 + 1/8 × 4 = 3 1/2. Spot the mistake and give the correct answer.

Answer _____

23. Work out (1/2 – 7/8) ÷ 2/5.

Answer _____

24. Show that 4 ÷ 3/4 gives the same answer as 4 × 4/3. Explain why.

Answer _____

25. Work out 1.4 × 1.9.

Answer _____

26. Work out 2 1/2 – 2 4/9.

Answer _____

27. Work out 3 2/9 × 1 1/2. Cancel before you multiply.

Answer _____

28. A water butt is 2/3 full. After 70 litres are used, it is 1/4 full. How many litres does it hold when full?

Answer _____

29. Write down the reciprocal of 4 2/9.

Answer _____

30. Dina says 2/3 + 1/6 gives the same answer as 1/6 + 2/3. Is Dina right? Explain.

Answer _____