Year 8 Decimals – Mixed Practice

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Year 8 · Maths · Decimal Calculations and Ordering · Mixed practice · 30 questions

Name _____ **Date** _____

A. Mixed practice (mixed order)

1. 8.5 × 0.4 = ? Answer _____

2. 2.75 ÷ 1.1 = ? Answer _____

3. 0.29 × 0.1 = ? Answer _____

4. 2.8 ÷ 1.4 = ? Answer _____

5. −9.3 × 0.67 = ? Answer _____

6. 13.8 ÷ 0.6 = ? Answer _____

7. 2.7 × 7.8 = ? Answer _____

8. Write <, > or = to make this true: 1/8 ? 0.6 Answer _____

9. Estimate 5.7 × 6.1 by rounding each number to the nearest whole number. Then work out the exact answer.

Answer _____

10. At 6 a.m. the temperature was −4.6 °C. By noon it had risen by 7.1 °C. What was the temperature at noon?

Answer _____

11. Which of these values of x satisfy $-0.5 < x \leq 1.6$? 1.6, 1.55, −0.45, 1.7, −0.6

Answer _____

12. A room needs 18.9 litres of paint. Paint is sold in 2.5 litre tins. How many tins must be bought?

Answer _____

13. 26.4 ÷ 1.1 = ?

Answer _____

14. Estimate 8.4 × 5.6 by rounding each number to the nearest whole number. Then work out the exact answer.

Answer _____

15. Write these in order, smallest first: −6/5, −3/8, 1/8, 5/8, −2.5

Answer _____

16. Jade says dividing by 0.5 is the same as doubling. Is Jade right? Explain.

Answer _____

17. 1.2 × 0.24 = ? Answer _____

18. Write <, > or = to make this true: 3/10 ? −3/8 Answer _____

19. Which of these values of x satisfy $-2 \leq x < 2$? 2, 0, −2.1, 2.1, 1.95

Answer _____

20. Lina says −0.7 > −0.65 because 4 tenths is more than 3 tenths. Spot the mistake and write the correct statement.

Answer _____

21. Estimate 5.6 × 3.2 by rounding each number to the nearest whole number. Then work out the exact answer.

Answer _____

22. Kofi says 0.6 × 0.3 = 1.8. Spot the mistake and give the correct answer.

Answer _____

23. 7.28 ÷ 1.3 = ? Answer _____

24. Jade's calculator shows 7.8 × 4 = 3.12. Use an estimate to decide whether this is reasonable.

Answer _____

25. Write <, > or = to make this true: −5/2 ? −6/5 Answer _____

26. Write these in order, smallest first: 1/8, −0.35, −1/3, 0.6, −0.4

Answer _____

27. A jug holds 3.75 litres of juice. Each glass holds 0.25 litres. How many glasses can be filled?

Answer _____

28. 0.32 × 0.87 = ? Answer _____

29. Which of these values of x satisfy $-1.3 \leq x < 0.6$? -1.4, 0.7, 0.6, 0.55, -1.25

Answer _____

30. Jade says $x \leq 3$ includes the value 3, but $x < 3$ does not. Is Jade right? Explain.

Answer _____