

Grade 9 Mathematics

Revision Workshop on 12th February 2026



NAME: _____

1. Simplify:

a. $\frac{3}{4} + \frac{1}{3} - \frac{1}{2}$

b. $\frac{3}{4} \times \frac{2}{3}$

c. $\frac{4}{11} \div \frac{12}{22}$

d. $2\frac{1}{3} \times 3\frac{1}{2}$

a. $\frac{3}{5} + \frac{1}{3} \times \frac{2}{5}$

h. $7 - 40\% \text{ of } 50$

i. $35\% + \frac{3}{10} - \frac{2}{5}$

j. $45\% + \frac{4}{5} - 1\frac{7}{10}$

2. Prime factorise the following numbers:

a. 300

b. 72

c. 420

d. 60

3. Cross out the incorrect statements in each case:

To find the **lowest common multiple (LCM)** of numbers in prime factored form we:

write down ALL the bases	OR	we write down only the common bases
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and then we

take the lowest occurring power of each	OR	take the highest occurring power of each
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To find the **highest common factor (HCF)** of numbers in prime factored form we:

write down ALL the bases	OR	we write down only the common bases
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and then we

take the lowest occurring power of each	OR	take the highest occurring power of each
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4. Use your answers to question 3 to find:

a. The HCF (highest common factor) of 300 and 72

b. The LCM (lowest common multiple) of 60 and 72

c. The HCF (highest common factor) of 420 and 60

d. The LCM (lowest common multiple) of 60 and 300

e. The HCF (highest common factor) of 60, 72, 300 and 420

f. The LCM (lowest common multiple) of 60, 72, 300 and 420

12. Find the following by prime factoring:

$$\sqrt{324}$$

$$\sqrt[3]{216}$$

13. $36\,000 = 2^5 \times 3^2 \times 5^3$. What is the smallest number we can multiply 36000 by to get:

a. a perfect square?

b. a perfect cube?

28. Sort these numbers from biggest to smallest by first expressing them all as a common fraction type:

$$\frac{2}{5}; 0,3; \frac{1}{3}; 40\%; \frac{23}{60}; 1\frac{4}{15}; \frac{11}{30}; 2\frac{1}{60}$$

29. Convert to fractions in simplest form

a. 0,35

b. 0,105

c. 2,55

d. 46%

30. Convert to decimals:

a. $2\frac{3}{5}$

b. $\frac{3}{40}$

c. $\frac{3}{125}$

d. $\frac{45}{8}$

31. I can buy 30 litres of diesel for R690.

a. How many litres can I get for R900?



b. How much will 50 litres cost?

30. A shopkeeper offers a 21% discount on a bicycle costing R3000. What does it now cost?



31. A shopkeeper makes a 10% profit on a rugby ball which cost her R375. How much did she sell it for?



32. A book costs R402,50 with 15% VAT included. What did it cost before the VAT was added?

