Fractions: Add, Subtract, Multiply and Divide

Year 10–11 Maths · Years 10–11 · NCEA Level 1 · About 25 minutes · 8 questions

Name _____ Date _____ Score / 8

WHAT YOU WILL PRACTISE

- Add and subtract fractions with different denominators
- Multiply and divide fractions
- Calculate with mixed numbers

WORKED EXAMPLE

Work out 2/3 + 1/4.

1. Find a common denominator for 3 and 4: use 12.
2. Convert each fraction: 2/3 = 8/12 and 1/4 = 3/12.
3. Add the numerators: 8/12 + 3/12 = 11/12.

Answer: 11/12

Questions

Show your working in the space under each question.

1. Work out 2/5 + 1/5

2. Work out 1/2 + 1/3

3. Work out 3/4 − 2/5

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4. Work out 2/3 × 3/5. Give your answer in its simplest form.

5. Work out 3/4 ÷ 2/5

6. Work out 1½ + 2⅔

7. Work out 2¼ × 1⅓

8. A tank is 5/8 full of water. An amount of water equal to 1/4 of the full tank is then used. What fraction of the tank is now full?

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Answers: Fractions: Add, Subtract, Multiply and Divide

Mark your own work, then go back to any question you got wrong before reading the tutor tip.

Q	QUESTION	ANSWER
1	Work out 2/5 + 1/5	**3/5**
2	Work out 1/2 + 1/3	**5/6**
3	Work out 3/4 − 2/5	**7/20**
4	Work out 2/3 × 3/5. Give your answer in its simplest form.	**2/5**
5	Work out 3/4 ÷ 2/5	**15/8 = 1 7/8**
6	Work out 1½ + 2⅔	**25/6 = 4 1/6**
7	Work out 2¼ × 1⅓	**3**
8	A tank is 5/8 full of water. An amount of water equal to 1/4 of the full tank is then used. What fraction of the tank is now full?	**3/8**

TUTOR TIP

Adding and subtracting need a common denominator. Multiplying goes straight across. Dividing means flip the second fraction and multiply.

Stuck on a question? Work through it live with a tutor.

YFCampus offers one-to-one online Maths tutoring matched to your school curriculum. Book a free trial class at **www.yfcampus.com/nz**

Written for students aged 13 to 16 and suitable for Years 10–11. Check your school’s curriculum for the exact order of topics. YFCampus is independent and is not affiliated with any exam board or education ministry.