Grade 6 Maths sample study pack

Revision notes

This pack uses a fictional school exam scope. Use your own school’s scope to decide what to revise.

Add fractions

Write both fractions with the same denominator. Four goes into eight twice, so multiply both parts of 3/4 by 2. Then add the numerators.

3/4 + 1/8 = 6/8 + 1/8 = 7/8

Compare decimals

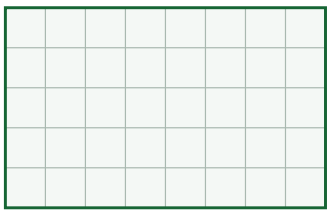
Write the decimals with the same number of places. Adding a zero at the end does not change the value. Compare tenths first, then hundredths.

0.60 > 0.56 because 6 tenths is more than 5 tenths.

Perimeter and area

Perimeter is the distance around the outside. For area, count the 1 cm² squares inside. This rectangle has 5 rows of 8 squares.

Perimeter: 8 + 5 + 8 + 5 = 26 cm. Area: 40 cm².



Curriculum reference: DBE CAPS Mathematics, Grades 4-6

Practice questions

Show your working. Use the memo on page 4 to check your answers.

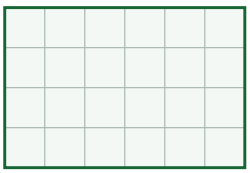
01 Calculate 1/2 + 1/4. Show how you made the denominators the same.

02 Calculate 1/3 + 1/6. Simplify your answer if you can.

03 Which is greater, 0.7 or 0.67? Explain using place value.

04 Put 0.35, 0.5 and 0.43 in order from smallest to largest.

05 Find the perimeter and area of the rectangle. Each square represents 1 cm by 1 cm.



Mini mock test

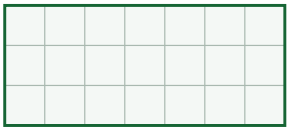
Allow 15 minutes. Show your working. Total: 10 marks. Check the memo afterwards.

01 Calculate 2/3 + 1/6. Show how you made the denominators the same. [2]

02 Calculate 1/2 + 3/8. Show your working. [2]

03 Fill in <, > or =: 0.48 ___ 0.5. Explain using place value. [2]

04 Use the rectangle. Each square represents 1 cm by 1 cm.
a) Find the perimeter. [2]
b) Find the area by counting squares. [2]



Memo and marking guide

Equivalent fractions and valid alternative methods are accepted. Revisit any step that needs more practice.

Practice questions

1	2/4 + 1/4 = 3/4.
2	2/6 + 1/6 = 3/6 = 1/2.
3	0.7 is greater. 0.70 has 7 tenths and 0.67 has 6 tenths.
4	0.35 < 0.43 < 0.5. Write 0.5 as 0.50 to compare.
5	Perimeter: 6 + 4 + 6 + 4 = 20 cm. Area: 4 rows of 6 squares = 24 cm².

Mini mock test

1	2/3 = 4/6 (1). 4/6 + 1/6 = 5/6 (1).
2	1/2 = 4/8 (1). 4/8 + 3/8 = 7/8 (1).
3	0.48 < 0.5 (1). 0.48 has 4 tenths and 0.50 has 5 tenths (1).
4a	7 + 3 + 7 + 3 (1). Perimeter = 20 cm (1).
4b	3 rows of 7 squares, or 21 squares counted (1). Area = 21 cm² (1).