

# Mathematics Mock Exam

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## 1 ARITHMETIC

1. What is the result of  $45 + 37$ ?
2. Calculate the difference between 300 and 167.
3. Multiply 23 by 3.
4. Divide 72 by 9.
5. What is 5 to the power of 3?

## 2 NUMBER AND PLACE VALUE

1. Write the number 5073 in words.
2. What is the value of the digit 5 in the number 354?
3. Write  $7000 + 500 + 40 + 2$  in standard form.
4. Round the number 7845 to the nearest thousand.
5. What is the Roman numeral for 50?

## 3 FRACTIONS

1. Simplify the fraction  $\frac{14}{42}$ .
2. Add the fractions  $\frac{1}{4}$  and  $\frac{3}{8}$ .
3. Subtract  $\frac{2}{3}$  from  $\frac{5}{6}$ .
4. Multiply  $\frac{2}{5}$  by  $\frac{3}{4}$ .
5. Divide  $\frac{3}{4}$  by  $\frac{2}{5}$ .

## 4 DECIMALS

1. Write 0.75 as a fraction.
2. Add 2.3 and 4.67.
3. Subtract 0.8 from 3.45.
4. Multiply 1.2 by 3.5.
5. Divide 2.5 by 0.5.

## 5 PERCENTAGES

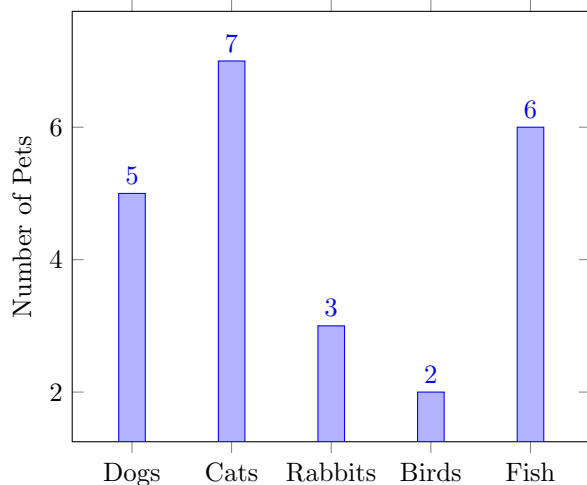
1. Write 45% as a fraction.
2. What is 30% of 200?
3. Increase 400 by 15%.
4. Decrease 80 by 25%.
5. What percentage of 50 is 10?

## 6 MEASUREMENT AND GEOMETRY

1. Calculate the area of a rectangle with length 7 cm and width 3 cm.
2. What is the perimeter of a square with side length 4 cm?
3. Calculate the volume of a cube with edge length 3 cm.
4. What is the total surface area of a cuboid with dimensions 2 cm, 3 cm and 4 cm?
5. What is the circumference of a circle with a radius of 3 cm? (Use  $\pi \approx 3.14$ )

## 7 GRAPHS AND BAR CHARTS

Here is a bar chart of the number of pets in a class. Use it to answer the questions.



1. How many students have dogs as pets?
2. Which pet is the least popular?
3. How many more students have cats than rabbits?