Primary 5 Maths Worksheets

Primary 5 · Mathematics

The Singapore Syllabus

1 Numbers to 10 million and order of operations

Name: _____ **Date:** _____ **Score:** ____ / 10

Syllabus: Numbers up to 10 million, multiplying and dividing by 10, 100 and 1000, and order of operations with brackets.

Do the brackets first, then multiply and divide from left to right, then add and subtract from left to right.

1. Write 3 406 050 in words.

   Answer: _____

2. Write two million, seventy thousand and nine in numerals.

   Answer: _____

3. In 5 728 400, the digit 7 stands for ____.

4. Round 4 361 500 to the nearest million.

   Answer: _____

5. 360 × 1000 = ____

6. 48 000 ÷ 100 = ____

7. 70 × 600 = ____

8. 18 + 6 × 4 = ____

9. 60 − (8 + 4) × 3 = ____

10. 96 ÷ 8 + 5 × (10 − 7) = ____

2 Fractions

Name: _____ **Date:** _____ **Score: ____ / 10**

Syllabus: Fraction as division, adding and subtracting mixed numbers, and multiplying fractions.

Give each answer in its simplest form.

1. Write $7 \div 4$ as a mixed number.

Answer: _____

2. Write $\frac{5}{8}$ as a decimal.

Answer: _____

3. $2\ \frac{1}{2} + 1\ \frac{2}{3} =$ ____

4. $3\ \frac{1}{4} + 2\ \frac{5}{6} =$ ____

5. $4\ \frac{1}{3} - 1\ \frac{3}{4} =$ ____

6. $5 - 2\ \frac{3}{8} =$ ____

7. $\frac{3}{4} \times 20 =$ ____

8. $\frac{2}{3} \times \frac{9}{10} =$ ____

9. $2\ \frac{1}{4} \times 6 =$ ____

10. A jug held $\frac{3}{4}$ ℓ of juice. Wei drank $\frac{2}{5}$ of the juice. How much juice did he drink? Give your answer in litres.

Answer: _____

3 Decimals and conversion of units

Name: _____ **Date:** _____ **Score: ____ / 10**

Syllabus: Multiplying and dividing decimals by 10, 100 and 1000, and changing a measurement from one unit to another in decimal form.

Remember: 1 km = 1000 m, 1 m = 100 cm, 1 kg = 1000 g and 1 ℓ = 1000 ml.

1. 3.47 × 10 = ____
2. 0.628 × 100 = ____
3. 5.09 × 1000 = ____
4. 46.5 ÷ 10 = ____
5. 37 ÷ 100 = ____
6. 2.3 × 40 = ____
7. 1.25 km = ____ m
8. 480 g = ____ kg
9. 3.06 ℓ = ____ ml
10. A rope is 4.5 m long. Jun cuts off 85 cm. How long is the rope that is left? Give your answer in metres.

Answer: _____

4 Percentage

Name: _____ **Date:** _____ **Score:** ____ / 10

Syllabus: Percentage as a part of a whole, finding a percentage of a quantity, and discount, GST and annual interest.

Per cent means out of 100.

1. Write $\frac{7}{20}$ as a percentage.

Answer: _____

2. Write 0.08 as a percentage.

Answer: _____

3. Write 45% as a fraction in its simplest form.

Answer: _____

4. 30 out of 50 pupils in a club are girls. What percentage of the pupils are girls?

Answer: _____

5. 25% of 360 = ____

6. 40% of $65 = ____

7. A bag costs $80. It is sold at a discount of 15%. What is the sale price?

Answer: _____

8. A meal costs $40 before GST. GST is 9%. What is the cost of the meal with GST?

Answer: _____

9. Mr Lee puts $5000 in a bank. The interest rate is 2% per year. How much interest does he earn after 1 year?

Answer: _____

10. There are 240 seats in a hall. 65% of the seats are taken. How many seats are empty?

Answer: _____

5 Rate

Name: _____ **Date:** _____ **Score: ____ / 10**

Syllabus: Rate as the amount of one quantity for each unit of another quantity, and finding the rate, the total amount or the number of units.

Find the amount for 1 unit first.

1. A hose fills a pool with 45 ℓ of water in 5 minutes. Find the rate in litres per minute.

Answer: _____

2. A machine seals 120 bottles per minute. How many bottles does it seal in 15 minutes?

Answer: _____

3. Aini types 55 words per minute. How long does she take to type 1650 words?

Answer: _____

4. 6 notebooks cost $8.40. At this rate, how much do 10 notebooks cost?

Answer: _____

5. A car uses 8 ℓ of petrol for every 100 km. How much petrol does it use for 350 km?

Answer: _____

6. A worker is paid $12 per hour. He works 7 hours a day for 5 days. How much is he paid?

Answer: _____

7. A pump moves 96 ℓ of water in 4 minutes. At this rate, how much water does it move in 9 minutes?

Answer: _____

8. Water flows into an empty tank at 15 ℓ per minute. The tank holds 600 ℓ. How long does it take to fill the tank?

Answer: _____

9. Parking costs $1.20 for every half hour. Mr Tan parks for 3 hours. How much does he pay?

Answer: _____

10. A tap drips 30 ml of water every minute. How much water drips in 1 hour? Give your answer in litres.

Answer: _____

6 Area of triangle

Name: _____ **Date:** _____ **Score:** ____ / 10

Syllabus: The base and height of a triangle, and the area of a triangle.

Area of a triangle = $\frac{1}{2}$ × base × height. The height meets the base at a right angle.

1. A triangle has a base of 10 cm and a height of 6 cm. Find its area.

Answer: _____

2. A triangle has a base of 9 m and a height of 8 m. Find its area.

Answer: _____

3. A triangle has a base of 15 cm and a height of 12 cm. Find its area.

Answer: _____

4. A triangle has a base of 7 cm and a height of 5 cm. Find its area.

Answer: _____

5. A right-angled triangle has sides of 6 cm, 8 cm and 10 cm. Find its area.

Answer: _____

6. A triangle has an area of 40 cm². Its base is 10 cm. Find its height.

Answer: _____

7. A triangle has an area of 54 m². Its height is 9 m. Find its base.

Answer: _____

8. A square of side 12 cm is cut along one diagonal into two equal triangles. Find the area of each triangle.

Answer: _____

9. A rectangle is 14 cm long and 9 cm wide. A triangle is drawn inside it. Its base is one long side of the rectangle and its top corner is on the opposite side. Find the area of the triangle.

Answer: _____

10. In question 9, what area of the rectangle is not covered by the triangle?

Answer: _____

7 Volume of cube and cuboid

Name: _____ **Date:** _____ **Score: ____ / 10**

Syllabus: Volume in cubic centimetres and cubic metres, the volume of a cube and a cuboid, and the volume of liquid in a rectangular tank.

Volume of a cuboid = length × breadth × height. Remember: 1 ℓ = 1000 cm³.

1. A cuboid is 8 cm long, 5 cm wide and 4 cm high. Find its volume.

Answer: _____

2. A cube has edges of 6 cm. Find its volume.

Answer: _____

3. A cuboid is 12 m long, 3 m wide and 2 m high. Find its volume.

Answer: _____

4. A solid is built from 1 cm cubes. It has 4 layers. Each layer has 3 rows of 5 cubes. Find its volume.

Answer: _____

5. 3500 cm³ = ____ ℓ

6. 2 ℓ 40 ml = ____ cm³

7. A rectangular tank is 50 cm long, 30 cm wide and 40 cm high. How many litres of water can it hold when it is full?

Answer: _____

8. The tank in question 7 is filled with water to a height of 25 cm. Find the volume of the water in litres.

Answer: _____

9. A cuboid has a volume of 420 cm³. It is 10 cm long and 7 cm wide. Find its height.

Answer: _____

10. A box is 10 cm long, 8 cm wide and 6 cm high. How many cubes with edges of 2 cm fill the box exactly?

Answer: _____

A Answer key

Mark each worksheet, then go over any wrong answer together.

1. NUMBERS TO 10 MILLION AND ORDER OF OPERATIONS

1. three million, four hundred and six thousand and fifty
2. 2 070 009
3. 700 000 (7 hundred thousands)
4. 4 000 000
5. 360 000
6. 480
7. 42 000
8. 42
9. 24
10. 27

2. FRACTIONS

1. $1\frac{3}{4}$
2. 0.625
3. $4\frac{1}{6}$
4. $6\frac{1}{12}$
5. $2\frac{7}{12}$
6. $2\frac{5}{8}$
7. 15
8. $\frac{3}{5}$
9. $13\frac{1}{2}$
10. $\frac{3}{10}$ ℓ

3. DECIMALS AND CONVERSION OF UNITS

1. 34.7
2. 62.8
3. 5090
4. 4.65
5. 0.37
6. 92
7. 1250
8. 0.48
9. 3060
10. 3.65 m

4. PERCENTAGE

1. 35%
2. 8%
3. $\frac{9}{20}$
4. 60%
5. 90
6. $26
7. $68
8. $43.60
9. $100
10. 84

5. RATE

1. 9 ℓ per minute
2. 1800
3. 30 minutes
4. $14
5. 28 ℓ
6. $420
7. 216 ℓ
8. 40 minutes
9. $7.20
10. 1.8 ℓ

6. AREA OF TRIANGLE

1. 30 cm^2
2. 36 m^2
3. 90 cm^2
4. 17.5 cm^2
5. 24 cm^2 (the 6 cm and 8 cm sides meet at the right angle)
6. 8 cm
7. 12 m
8. 72 cm^2
9. 63 cm^2
10. 63 cm^2

7. VOLUME OF CUBE AND CUBOID

1. 160 cm^3
2. 216 cm^3
3. 72 m^3
4. 60 cm^3
5. 3.5
6. 2040
7. 60 ℓ
8. 37.5 ℓ
9. 6 cm
10. 60