

香港小五數學練習卷

小五 數學 | 時限：50 分鐘 | 總分：100 分 | 共 16 題

甲部 短答題 (8 題，每題 3 分)

計算下列各題。

1. Work out $\frac{3}{4} \times \frac{8}{9}$. Give the answer in its simplest form.

答案： $\frac{3}{4} \times \frac{8}{9} = \frac{24}{36} = \frac{2}{3}$ (cancel 3 and 8 with 9 and 4 before multiplying).

2. Work out $2\frac{1}{2} \div \frac{5}{6}$.

答案： $2\frac{1}{2} \div \frac{5}{6} = \frac{5}{2} \times \frac{6}{5} = 3$

3. Solve $4x + 7 = 39$.

答案： $4x = 39 - 7 = 32$, so $x = 8$. (Check: $4 \times 8 + 7 = 39$.)

4. Solve $3(x - 5) = 27$.

答案： $x - 5 = 27 \div 3 = 9$, so $x = 14$. (Check: $3 \times 9 = 27$.)

5. A triangle has a base of 14 cm and a height of 9 cm. Find its area.

答案： $14 \times 9 \div 2 = 63 \text{ cm}^2$. Remember to halve the product.

6. A parallelogram has a base of 12 cm and a height of 7 cm. Find its area.

答案： $12 \times 7 = 84 \text{ cm}^2$

7. A cuboid measures 9 cm by 5 cm by 4 cm. Find its volume.

答案： $9 \times 5 \times 4 = 180 \text{ cm}^3$

8. A circle has a radius of 8 cm. (a) Write down its diameter. (b) Another circle has a diameter of 26 cm. Write down its radius.

答案： (a) $8 \times 2 = 16 \text{ cm}$. (b) $26 \div 2 = 13 \text{ cm}$. The diameter passes through the centre; the radius is half of the diameter.

乙部 應用題 (5 題，每題 8 分)

列出算式，並寫出答案及單位。

9. A trapezium has parallel sides of 12 cm and 18 cm and a height of 10 cm. Find its area.

答案： $(12 + 18) \times 10 \div 2 = 150 \text{ cm}^2$. (Add the parallel sides first, then multiply by the height and halve.)

10. There are 480 students in a school. $\frac{5}{8}$ of them take the bus to school. How many students take the bus?

答案： $480 \div 8 \times 5 = 300$ students, or $480 \times \frac{5}{8} = 300$. (1 mark for $\div 8$, 1 mark for $\times 5$.)

11. After Ali spends \$35, he has \$58 left. (a) Form an equation to find the amount \$x he had at first. (b) Solve the equation.

答案： (a) $x - 35 = 58$. (b) $x = 58 + 35 = 93$, so Ali had \$93 at first.

12. The masses of five boxes are 12, 15, 9, 18, 16 kg. (a) Find the total mass. (b) Find the mean mass.

答案：(a) $12 + 15 + 9 + 18 + 16 = 70$ kg. (b) $70 \div 5 = 14$ kg.

13. A bottle holds $\frac{3}{4}$ L of juice. It is poured equally into cups of $\frac{1}{8}$ L each. How many cups can be filled?

答案： $\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times 8 = 6$ cups. (Invert the divisor before multiplying.)

丙部 綜合題 (3 題，每題 12 分)

須列出算式，並寫出答案及單位。

14. A rectangular water tank measures 1.2 m by 0.8 m by 0.5 m.

(a) Find its volume in cubic metres. (b) Express this volume in litres. (c) If 150 L of water is used, how many litres are left?

答案：(a) $1.2 \times 0.8 \times 0.5 = 0.5 \text{ m}^3$. (b) $0.5 \text{ m}^3 = 480 \text{ L}$ ($1 \text{ m}^3 = 1000 \text{ L}$). (c) $480 - 150 = 330 \text{ L}$. (1 mark for the conversion in (b).)

15. A triangular flag has a base of 24 cm and a height of 15 cm. Flags are cut from a rectangular piece of cloth 90 cm by 60 cm.

(a) Find the area of one flag. (b) Find the area of the cloth. (c) How many flags can be cut, and how much cloth is left?

答案：(a) $24 \times 15 \div 2 = 180 \text{ cm}^2$. (b) $90 \times 60 = 5400 \text{ cm}^2$. (c) $5400 \div 180 = 30$ flags; no cloth is left over.

16. A recipe needs $\frac{2}{3}$ kg of flour for one cake.

(a) How much flour is needed for 9 cakes? (b) Flour is sold in bags of $1\frac{1}{2}$ kg. How many bags must be bought for 9 cakes?

答案：(a) $\frac{2}{3} \times 9 = 6$ kg. (b) $6 \div 1\frac{1}{2} = 6 \div \frac{3}{2} = 4$ bags. The answer must be a whole number of bags.