

香港小六數學練習卷

小六 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 (π 取 $22/7$)。

1. Work out $4,608 \div 12$.

答案： $4,608 \div 12 = 384$

2. Work out $3/4 \div 9/8$. Give the answer in its simplest form.

答案： $3/4 \div 9/8 = 3/4 \times 8/9 = 24/36 = 2/3$ (invert the divisor, then cancel).

3. Find 35% of 240.

答案： $35\% \text{ of } 240 = 35/100 \times 240 = 84$

4. 25% of a number is 45. Find the number.

答案： The number is $45 \div 25\% = 45 \div 0.25 = 180$. (Check: $180 \times 25\% = 45$.)

5. A circle has a radius of 14 cm. Find its circumference. (Take $\pi = 22/7$.)

答案： $2 \times 22/7 \times 14 = 88 \text{ cm}$

6. A circle has a radius of 7 cm. Find its area. (Take $\pi = 22/7$.)

答案： $22/7 \times 7 \times 7 = 154 \text{ cm}^2$

7. A bus travels 240 km in 3 hours. Find its average speed in km/h.

答案： Average speed = distance $\div$ time = $240 \div 3 = 80 \text{ km/h}$

8. A cuboid measures 15 cm by 8 cm by 6 cm. Find its volume.

答案： $15 \times 8 \times 6 = 720 \text{ cm}^3$

乙部 應用題 (5 題，每題 8 分)

列出算式，並寫出答案及單位。

9. There are 640 students in a school. 45% of them are boys. (a) How many boys are there? (b) How many girls are there?

答案： (a) $640 \times 45/100 = 288$ boys. (b) $640 - 288 = 352$ girls. (1 mark for the percentage calculation, 1 for the subtraction.)

10. A train travels 315 km in 3.5 hours.

(a) Find its average speed. (b) At the same speed, how long does it take to travel 630 km?

答案： (a) $315 \div 3.5 = 90 \text{ km/h}$. (b) $630 \div 90 = 7$ hours.

11. A round table top has a diameter of 1.4 m. (Take $\pi = 22/7$.)

(a) Find its circumference. (b) Find its area. (c) A cloth of 2 m^2 is bought to cover the top. Is the cloth large enough?

Explain briefly.

答案： (a) $22/7 \times 1.4 = 4.4 \text{ m}$. (b) Radius = 0.7 m ; $22/7 \times 0.7 \times 0.7 = 1.54 \text{ m}^2$. (c) Yes: $1.54 \text{ m}^2 < 2 \text{ m}^2$, so 0.46 m^2 of cloth is left over.

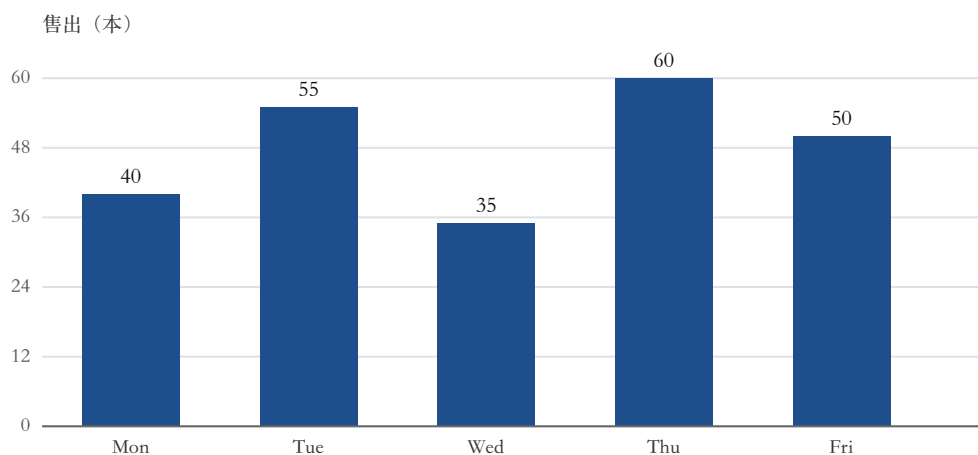
12. In a box of 350 beads, $2/5$ of them are red. How many red beads are there?

答案： $2/5 \times 350 = 350 \div 5 \times 2 = 140$ red beads. (1 mark for $\div$, 1 mark for $\times$ 2.)

13. The marks of five Mathematics tests are 78, 85, 90, 68, 84 (out of 100). (a) Find the total mark. (b) Find the mean mark.

答案：(a) $78 + 85 + 90 + 68 + 84 = 405$ marks. (b) $405 \div 5 = 81$ marks.

丙部 數據與綜合題 (3 題，每題 12 分)



圖一：書店星期一至五每日售出的圖書數量（本，示例數據）

根據圖表及題意作答，須列出算式。

14. The bar chart shows the number of books a shop sold from Monday to Friday.

(a) How many books were sold altogether? (b) Find the mean number of books sold per day. (c) What percentage of the total was sold on Thursday? (Give the answer as a percentage.)

答案：(a) $40 + 55 + 35 + 60 + 50 = 240$ books. (b) $240 \div 5 = 48$ books per day. (c) $60 \div 240 \times 100\% = 25\%$.

15. After Ben spends 35% of his money, he has \$520 left.

(a) What percentage of his money is left? (b) How much money did he have at first? (c) How much did he spend?

答案：(a) $100\% - 35\% = 65\%$. (b) $\$520 \div 65\% = \$520 \div 0.65 = \$800$. (c) $\$800 - \$520 = \$280$ spent.

16. A car travels at 72 km/h for 2 hours 15 minutes and then travels 198 km at 66 km/h.

(a) Find the distance travelled in the first part of the journey. (b) Find the time taken for the second part. (c) Find the total distance travelled.

答案：(a) $2 \text{ hours } 15 \text{ minutes} = 2.25 \text{ h}$; $72 \times 2.25 = 162 \text{ km}$. (b) $198 \div 66 = 3 \text{ hours}$. (c) $162 + 198 = 360 \text{ km}$. (1 mark for the time conversion.)