

**1**

$1\text{ m} = 100\text{ cm}$        $1.57 \times 100 = 157$

A woman is 1.57 m tall. There is a man who is 27 cm taller than her.

**What is the height of the man in centimetres?**

$$\begin{array}{r} 157 \\ + 27 \\ \hline 184 \end{array}$$

- A 184 cm    B 154 cm    C 174 cm    D 180 cm    E 164 cm

**2**

A child is 96 cm tall. Their pet is exactly half of the child's height.

**How tall is the pet?**

$$2 \overline{) 96} \begin{array}{l} 48 \\ \hline \end{array}$$

- A 42 cm    B 46 cm    C 48 cm    D 52 cm    E 56 cm

**3**

A teenager's height is exactly halfway between the man's height (from Q1) and the pet's height (from Q2).

**What is the teenager's height?**

$$\begin{array}{r} 184 \\ + 48 \\ \hline 2 \overline{) 232} \\ 116 \end{array}$$

- A 120 cm    B 116 cm    C 112 cm    D 124 cm    E 108 cm

**4**

A pupil measured an angle. The angle was bigger than two fifths of a full turn but smaller than two thirds of a full turn.

$\times \frac{2}{3}$  of 360

$\frac{240}{}$

$\times \frac{2}{5}$  of 360

$\frac{144}{}$

**Which of these angles could be the angle the pupil measured?**

- A ~~140°~~    B 190°    C ~~240°~~    D ~~120°~~    E ~~300°~~

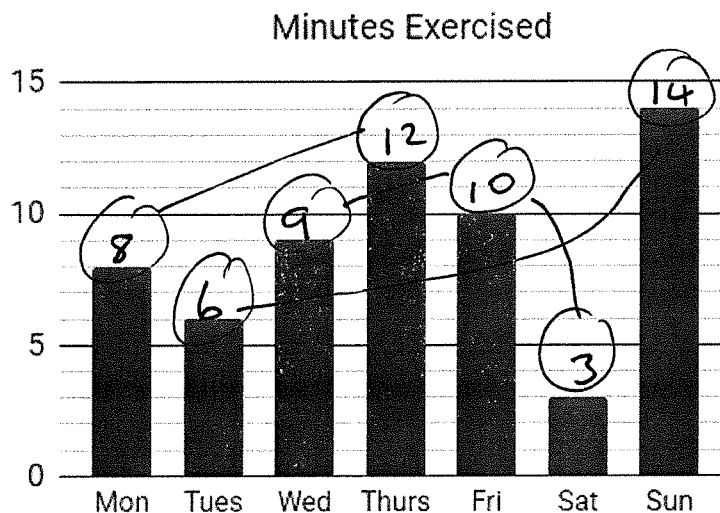
$144 \longleftrightarrow 240$

For question 5, you have to **write your answers** in the spaces provided.

# 5

Jacob records the number of minutes he exercises each day for a week.

He draws the graph below.



$$\begin{array}{r} 20 \\ 20 \\ + 22 \\ \hline 62 \end{array}$$

a) On which day did Jacob exercise the greatest number of minutes?

Sunday

b) On which day did Jacob exercise the fewest number of minutes?

Saturday

c) Which day had more minutes exercised than Wednesday, but fewer than Thursday?

Friday

d) How many minutes did Jacob exercise in total over the whole week?

62

Read the **whole** passage carefully, then answer the questions that follow.

### The Amazing Phil

1. Sasha had simply wanted to get out of the car and stretch her legs. When she and her mum  
2. drove up to the ancient-looking petrol station, neither of them was prepared to come face to  
3. face with a vicious dinosaur. The sculpture loomed 20 metres over the car. It was a T. rex,  
4. and the green paint was peeling from its front legs, which dangled in the air. Sasha's mum  
5. wasn't sure what to make of the whole thing. "I wonder who created this," she said, shading  
6. her eyes from the bright sun.
7. "I did," said a shaky voice nearby. Sasha turned around to see an elderly man propped up on  
8. a cane. He steadied himself and pointed one finger up toward the T. rex sculpture. "He's the  
9. Amazing Phil," the man said. "I built him in 1955, right after I opened the petrol station. He  
10. brought in a crowd for a long time, back when people didn't drive so fast." The man's  
11. weathered face broke into a soft smile.
12. "It's a great sculpture," Sasha's mum half lied. "I like the colours. So, what's your name?" "My  
13. name's Phil, too," said the man. He leaned back on his cane. "My wife is inside. She just  
14. made a pecan pie. Do you ladies like pie?"
15. Sasha looked at her mum. Her mum looked up at the dinosaur and then gazed up the road  
16. for a few awkward seconds. Then she smiled and looked at Phil. "Pecan pie is our favourite,"  
17. she replied, closing the car door behind her.

For these questions you have to **write your answers**, neatly, in the boxes provided.

- 1** Look at lines 1–6. What detail tells us that the T. Rex sculpture was large?

Loomed 20 metres over the car.

- 2** Look at lines 4–6. How does Sasha's mum react when she sees the dinosaur? Give two details.

Wasn't sure what to make of it.  
shaded her eyes.

**3** Look at lines 7–11. Which word in these lines tells us that Phil's face showed warmth?

(soft) smile

**4** Which one part of speech are the following words as they appear in the passage?  
out (line 1), up (line 2), over (line 3), in (line 10)

Prepositions

**5** Which part of speech is 'half' as it appears in the passage? (line 12)

adverb