Do not write on this page.
## PRACTICE QUESTIONS

**P1**

50, 100, 150, 200, 250, ?

Which number comes next in this sequence?

<table>
<thead>
<tr>
<th>251</th>
<th>260</th>
<th>300</th>
<th>350</th>
</tr>
</thead>
</table>

Shade one bubble.

**P2**

Use numbers to write one dollar and seventy-five cents.

$\underline{\phantom{00}}$

Write your answer in the box.

**P3**

268 cents equals

$\underline{\phantom{0}}$ dollars and $\underline{\phantom{0}}$ cents.

Write your answer in the boxes.

**P4**

Twenty-seven can be written as

2 7

Seventy-six can be written as

Write your answer in the boxes.
1
This is part of Laura’s school timetable.

<table>
<thead>
<tr>
<th>Start time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45 am</td>
<td>English Room 9</td>
<td>Mathematics Room 21</td>
<td>English Room 21</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Recess</td>
<td>Recess</td>
<td>Recess</td>
</tr>
<tr>
<td>10:45 am</td>
<td>Mathematics Room 22</td>
<td>English Room 15</td>
<td>Music Room 9</td>
</tr>
<tr>
<td>12:15 pm</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>Health Room 21</td>
<td>Art Room 11</td>
<td>Mathematics Room 15</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Sport Gym</td>
<td>Science Room 22</td>
<td>Science Room 22</td>
</tr>
</tbody>
</table>

What room is Laura in at 1:45 pm on Wednesday?

- Room 22
- Room 21
- Room 15
- Room 9

2
For 3 days, Bella made a tally of the birds she saw in a park. This table shows her results.

<table>
<thead>
<tr>
<th>Type of bird</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kookaburra</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magpie</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Galah</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosella</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Which column on the graph below shows the total number of Galahs?
3. A tap is dripping into a bucket. This table shows the total number of drops in the bucket after each minute.

<table>
<thead>
<tr>
<th>Minutes</th>
<th>Total number of drops</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>

How many drops are in the bucket after 10 minutes?

- 15
- 20
- 25
- 30

4. Joe made this design by joining six tiles together. The tiles are grey on all faces.

Which of these could not be Joe’s design?

- }
- }
- }
- }

5. This shape is made with 6 equilateral triangles.

What is the perimeter of the shape?

- 6 cm
- 8 cm
- 10 cm
- 18 cm
6

Alan buys 5 oranges and one pineapple from this market stall.

How much does Alan pay for the fruit altogether? $ \underline{\text{\hspace{2cm}}}.

7

Which of these is the best estimate for the mass of this hammer?

- 30 grams
- 300 grams
- 30 kilograms
- 300 kilograms

Shade one bubble.

Write your answer in the box.

8

This is part of the map of High Street.
Felix lives at number 2 which is the 1st house on the north side.

What is the number of the 18th house in High Street on the north side?

- 9
- 18
- 36
- 38

Shade one bubble.

Write your answer in the box.
Use the following information for questions 9 and 10.

This table shows the number of people who attended sport training on weekdays over 4 weeks.

<table>
<thead>
<tr>
<th>DAILY ATTENDANCE</th>
<th>Week 1</th>
<th>Week 2</th>
<th>Week 3</th>
<th>Week 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>82</td>
<td>44</td>
<td>39</td>
<td>63</td>
</tr>
<tr>
<td>Tuesday</td>
<td>77</td>
<td>56</td>
<td>75</td>
<td>58</td>
</tr>
<tr>
<td>Wednesday</td>
<td>55</td>
<td>52</td>
<td>59</td>
<td>67</td>
</tr>
<tr>
<td>Thursday</td>
<td>35</td>
<td>41</td>
<td>37</td>
<td>39</td>
</tr>
<tr>
<td>Friday</td>
<td>28</td>
<td>24</td>
<td>32</td>
<td>24</td>
</tr>
</tbody>
</table>

9 Which day had the greatest total attendance over the 4 weeks?

Monday | Tuesday | Wednesday | Thursday |

10 What was the mean (average) number of people who attended sport training on Fridays?

24 | 26 | 27 | 28

11 In a netball season, Josie had 480 shots for goal. She scored 210 goals and missed the rest.

Josie’s success rate of scoring goals was

- less than 25%
- more than 25% but less than 50%
- more than 50% but less than 75%
- more than 75%
12 Kate saves the same amount of money each week. At the end of each week she adds a point to this graph of her total savings.

What will be the exact total amount saved by Kate at the end of week 9?

$\quad$

13 Luke drew a shape with:
- exactly 2 pairs of parallel sides, and
- exactly 2 acute angles.

Which drawing could be Luke’s?

- Shade one bubble.

14 Helen paid $4465 for some sheep. She paid the same amount of money for each sheep. The cost of each sheep was a whole number of dollars.

Which of the following could be the number of sheep Helen bought?

- $43$
- $45$
- $47$
- $49$
YEAR 7 NUMERACY (CALCULATOR ALLOWED)

15

What is the size of the shaded angle?

115°  120°  130°  145°

16

Last year 3684 people went to a music festival.
The number of people who went to the festival
this year was \( \frac{2}{3} \) of last year’s figure.

How many people went to the festival this year?

1228  2442  2456  5526

17

The fractions \( \frac{9}{10} \) and \( \frac{1}{5} \) have been shaded on this fraction wall.

<table>
<thead>
<tr>
<th>One whole</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{1}{10} )</td>
</tr>
<tr>
<td>( \frac{1}{5} )</td>
</tr>
</tbody>
</table>

What is \( \frac{9}{10} - \frac{1}{5} \) equal to?

\( \frac{8}{5} \)  \( \frac{7}{10} \)  \( \frac{8}{10} \)  \( \frac{9}{10} \)
18. A prize of $5934 is shared equally among 15 friends. How much does each person get in dollars and cents?

Write your answer in the boxes.

[ ] dollars and [ ] cents

19. Zoe is 3 years older than Sarah. Emma is 4 years older than Sarah.

Which equation shows how Zoe’s age relates to Emma’s age?

- Zoe’s age = Emma’s age – 1
- Zoe’s age = Emma’s age + 1
- Zoe’s age = Emma’s age – 7
- Zoe’s age = Emma’s age + 7

Shade one bubble.

20. Adam leaves home and cycles 6 km west, then 4 km north. He records this trip as 6W, 4N.

Which of these trips takes Adam home again?

- 3W, 2N, 3W, 2N
- 2W, 2N, 4W, 6S
- 3E, 2S, 3E, 4S
- 2E, 2N, 4E, 6S

21. This diagram represents a 3D object.

The object is a

- hexagonal prism.
- hexagonal pyramid.
- rectangular prism.
- rectangular pyramid.
22. Which of these numbers is a multiple of both 7 and 11?

- 711
- 777
- 7117
- 7777

23. Harry has these L-shaped tiles. They are white on one side and black on the other side. Harry wants to make a pattern with all the tiles **white** side up. Which one of these patterns can Harry **not** make?

24. Kim throws a standard 6-sided die. Which point on the number line best shows the chance of Kim throwing a 2?

25. An electrician calculates the price of a job using a service fee and an amount **per hour**. This table shows some of the job prices.

<table>
<thead>
<tr>
<th>Hours</th>
<th>2</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job price</td>
<td>$160</td>
<td>$252</td>
<td>$298</td>
<td>$344</td>
</tr>
</tbody>
</table>

How are the job prices calculated?

- $80 service fee + $40 per hour
- $80 service fee + $80 per hour
- $68 service fee + $92 per hour
- $68 service fee + $46 per hour
26 This rectangular courtyard measures 6 m by 8 m. A triangle is marked out on the courtyard.

![Diagram of a triangle in a courtyard]

What is the area of the triangle? ______ square metres

27 Jamie surveyed all the Year 7 students at his school about their favourite sport.

<table>
<thead>
<tr>
<th>Favourite sport</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basketball</td>
<td>85</td>
</tr>
<tr>
<td>Cricket</td>
<td>35</td>
</tr>
<tr>
<td>Football</td>
<td>55</td>
</tr>
<tr>
<td>Netball</td>
<td>75</td>
</tr>
</tbody>
</table>

Which sport did 3 out of every 10 Year 7 students choose as their favourite?

Basketball  Cricket  Football  Netball

28 Dan has started to cover a rectangular floor with tiles. The tiles are twice as long as they are wide.

The floor is $10\frac{1}{2}$ tiles wide and $18\frac{1}{2}$ tiles long.

![Diagram of a rectangular floor]

Using this pattern, what is the total number of tiles Dan will use to cover the floor? ______
### Rob is building a brick wall that is 6 metres long.
The length of a row of 15 bricks is 3.6 metres as shown.

How many bricks will Rob need for a row 6 metres long?

### A shoe shop has a sale.

**Was $95**
**Sale price is 20% off**

**Was $90**
**Sale price is 25% off**

What is the difference in the sale prices of these two pairs of shoes?

### A gardening company uses the following rule to calculate the cost of sand.

\[
\text{cost in dollars} = (49.50 \times \text{volume in cubic metres}) + (5.90 \times \text{delivery distance in km})
\]

Michelle paid the company $653 for
12 cubic metres of sand.

What delivery distance was Michelle charged for?

### Pam’s new car uses 4.9 litres of fuel per 100 km.
Her old car used 7.5 litres of fuel per 100 km.
Pam pays $1.10 per litre and drives 10000 km each year.

How much money will Pam save on fuel each year with her new car?

---

**STOP – END OF TEST**