



Test 5

There are 7 questions in this test. Give yourself 10 minutes to answer them all.

You may use a calculator for this test.



1. Which digit in the number 7281.1777 has the value $\frac{7}{1000}$?

Circle the number that shows the correct underlined digit.

- 7281.1777
- 7281.1777
- 7281.1777
- 7281.1777

[1]

2. Circle the value that is **not** an integer.

- 18^2
- $\sqrt[3]{64}$
- 2^6
- $\sqrt{29}$

[1]

3. Round 148.20496 to two decimal places.

.....
[1]

4. To complete an 81 km race, a team must take it in turns to run laps. Each lap is 1.5 km long. A team has 9 members and each member completes the same number of laps. How many laps does each team member run?

.....
[2]

5. There are 2268 passengers on a ferry. $\frac{2}{7}$ are foot passengers. How many of them are **not** foot passengers?

.....
[2]

6. A newspaper reports the attendance at a concert on Friday as 14 300, rounded to the nearest hundred. Another newspaper reports the attendance on Saturday as 14 000, rounded to the nearest thousand. Work out the maximum number of people who attended the concerts over the two nights.

.....
[2]

7. The sum of Justin's age and his grandma's age is 92. One year ago, Justin's grandma was five times older than him. How old are Justin and his grandma now?

Justin:

Grandma:
[3]

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1. 7281.1777 [1 mark]
2. $\sqrt{29}$ [1 mark]
 $\sqrt{29} = 5.385...$ which isn't a whole number (integer).
3. 148.20 (2 d.p.) [1 mark]
4. The race is made up of
 $81 \div 1.5 = 54$ laps [1 mark],
so each member of the team must
run $54 \div 9 = 6$ laps [1 mark].
5. $1 - \frac{2}{7} = \frac{5}{7}$, then $\frac{5}{7} \times 2268 = 1620$
[1 mark for a correct method,
1 mark for the correct answer]
6. Maximum on Friday: 14 349
Maximum on Saturday: 14 499
Maximum total:
 $14\,349 + 14\,499 = 28\,848$
[1 mark for either the correct value
on Friday or on Saturday, 1 mark
for the correct final answer]
7. One year ago, the sum of Justin
and his grandma's ages would be
 $92 - 2 = 90$. If Justin's grandma was
five times older than him,
 $90 = 6 \times$ Justin's age, so Justin was
 $90 \div 6 = 15$ one year ago, and his
grandma was $5 \times 15 = 75$.
This means that Justin is now 16 and
his grandma is now 76.
[1 mark for a correct method,
1 mark for finding their correct
ages last year, 1 mark for finding
their correct ages this year]