



# **TEST INSTRUCTIONS**

- 1. You must do your own work.
- 2. Do not speak to other students during the test.
- 3. Raise your hand if you need to speak to the teacher.
- 4. Follow all directions given to you by the teacher.
- 5. All questions must be answered using the pencil you have been given. If you need to change an answer, carefully erase it and write another answer.
- 6. You are NOT permitted to use a calculator of any type.
- 7. To confirm you have the correct booklet, print your name below.

Print your name here:

# YOU HAVE 40 MINUTES TO COMPLETE THIS TEST

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#### You have 40 minutes to complete this test. You are NOT permitted to use a calculator of any type.

## Task 1 – Fun Run

A school Fun Run was held to raise money for charity.

The table contains information needed for questions 1 to 7. It shows the ranking, name, time taken and money collected by each of the first ten runners.

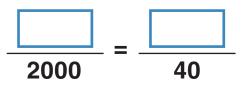
Rankings are based on times, **not** money collected.

First ten runners						
Ranking	Student name	Time (minutes : seconds)	Money collected (\$)			
1	Jane Hobbs	28:12	150			
2	Tim Nguyen	29:50	270			
3	Tony Costa	30:00	50			
4	Alex O'Brien	30:24	90			
5	Sue Clayton	30:48	500			
6	John Berry	31:08	175			
7	Sally Wilson	31:20	215			
8	Emily Tutt	32:10	280			
9	Ben Ross	32:45	195			
10	Nigel Cook	33:17	75			
		2000				

1

2

What fraction of the \$2000 total did Jane Hobbs collect? Simplify the fraction.



Write your answers in the boxes

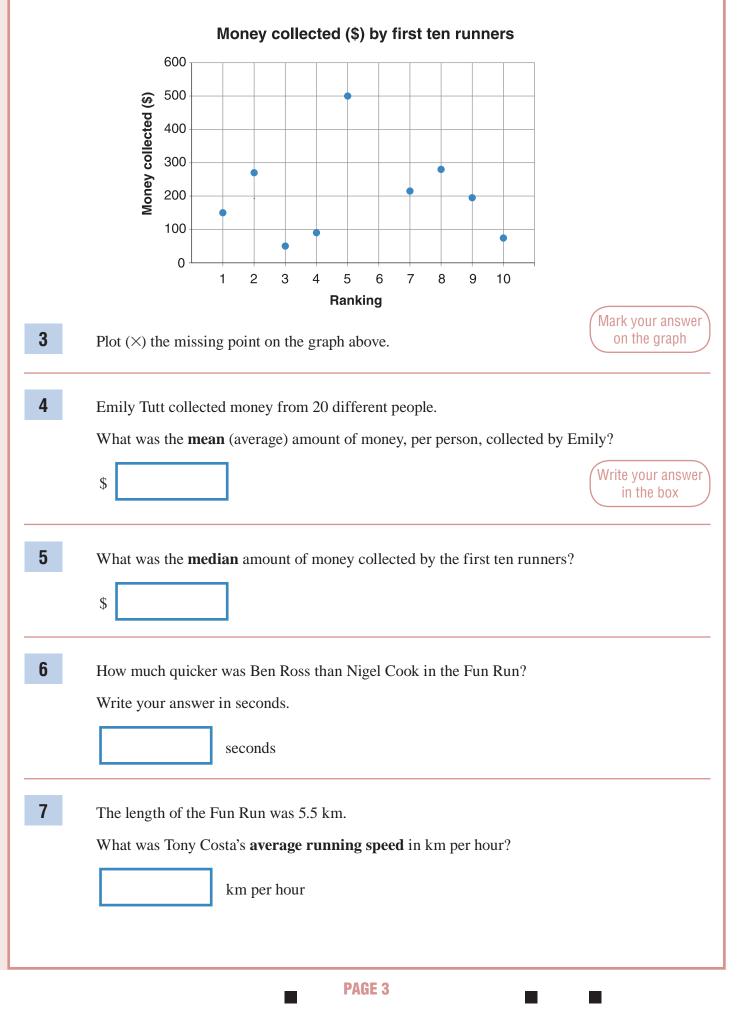
Sue Clayton collected the most money.

What **percentage** of the \$2000 total did she collect?



The graph shows the money collected by the first ten runners.

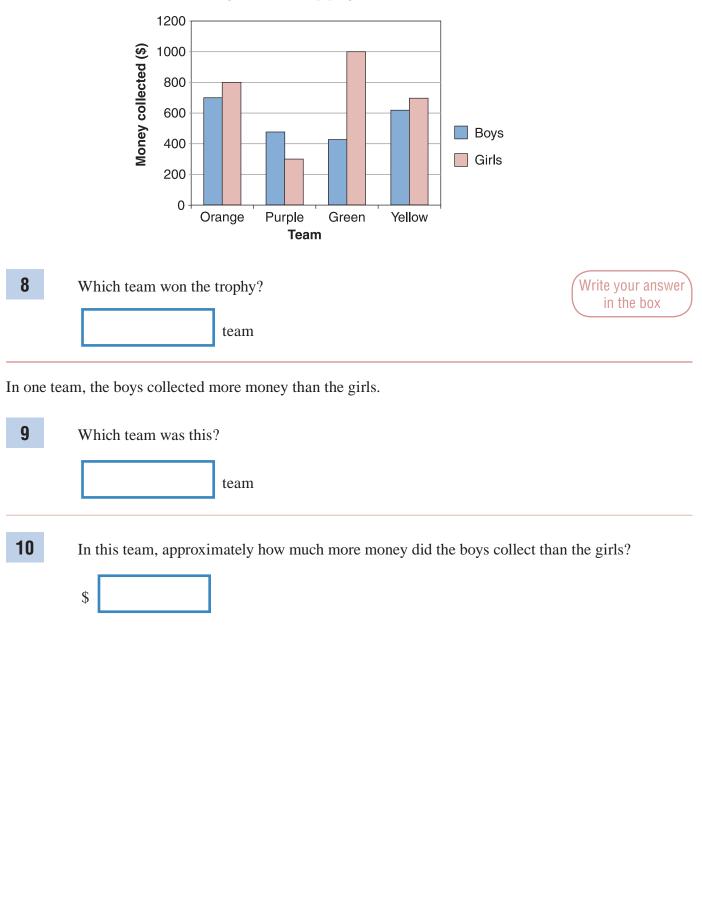
The point showing the money collected by one of the runners is missing from the graph.



All students at the school belong to one of four teams.

There is a trophy for the team that collects the most money for the Fun Run.

This graph shows how much money was collected by the boys and girls in each team.



Money collected (\$) by each team

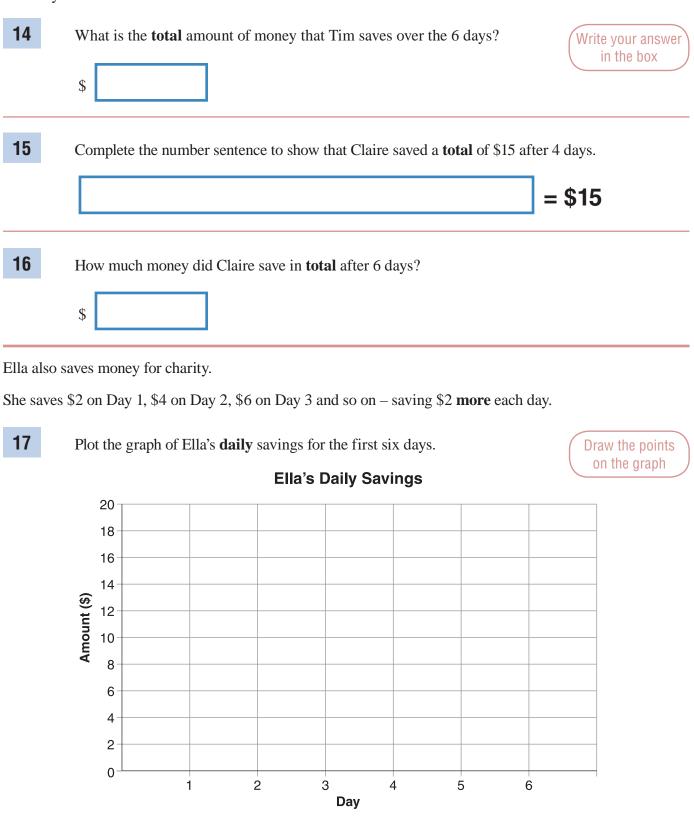
She sells t	he bad t she n	ge box of coloured team badges for \$20. lges at the Fun Run for \$2 each. nakes, after paying for the box of badges, is given to charity. rry sells 12 team badges	Write your answer in the box
	a.	how much money will she collect from the sales?	
	b.	<pre>what is the profit she will give to charity? \$</pre>	
12		many team badges does Kerry need to sell if she wants to give \$10 in to charity?	
13		e an equation that gives Kerry's <b>profit</b> , <i>P</i> , in terms of the number of tea she sells.	am badges, <i>n</i> ,

### Task 2 – Saving For Charity

Two students, Tim and Claire, are saving money for charity.

Tim saves \$2 every day for 6 days.

Claire saves \$1 on Day 1, \$2 on Day 2, \$4 on Day 3, and so on – doubling the amount she saves each day for 6 days.



Write each student's name (Tim, Claire or Ella) beside the rule that gives their **daily** savings.*D* is the **daily** savings in dollars on day *n*.

Student name	Daily savings
	D = 2n
	<i>D</i> = 2
	$D=2^{n-1}$



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The **total** amount of money Ella saved, *T*, after *n* days is given by the rule

T = n(n+1)

How many days will it take her to save \$420?

days