PHASE 3

Hampton Vale Primary Academy

Curiosity Confidence Courage Constancy

YEAR 5 HOMEWORK

ANSWERS - PACK 3

Please see answers to each task set for
MATHEMATICS

Section 1

Which digit represents the place value ten thousands in this number: **295 718**

9

Section 2

Calculate the following in your head:

45 + 23 = 68

29 + 56 = 85

78 – 62 = 16

61 – 34 = 27

Section 3

Calculate:

5.7 × 100 = 570

9.01 × 100 = 901

510 ÷ 100 = 5.1

8020 ÷ 100 = 80.2

Section 4

Use the symbols <, >, and = to compare these fractions:

$\frac{2}{3}$ > $\frac{1}{3}$

$\frac{1}{4}$ < $\frac{1}{2}$

$\frac{4}{10}$ = $\frac{2}{5}$

Section 5

Write the following numbers in numerals:

five point nine   5.9

seventeen point two   17.2

four and a quarter   4.25

Section 6

How many litres in a 250ml bottle of water?

0.25l

Section 7

Write regular or irregular by each shape.

regular   irregular

Section 8

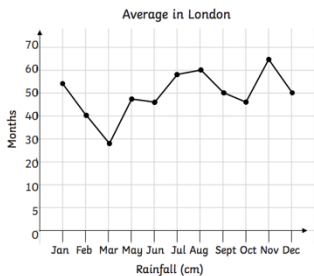Here is a table showing the favourite pets of children in a year group.

Pet	Number
Dog	15
Cat	21
Rabbit	6
Fish	17

How many children are there in the year group? 59

YEAR 5 HOMEWORK

1. Explain the mistakes in this line graph showing average rainfall in London, which is drawn from the information in the table.

Average in London

| Month	Rainfall (mm)
January	54
February	40
March	28
April	38
May	48
June	46
July	58
August	60
September	50
October	57
November	65
December	50

2. Explain why each of the following statements are true or false.

- The lowest temperature is 5°C
- The difference between the highest and lowest temperature is 12°C.
- The temperature rose 11°C from March to May.
- The largest fall in temperature was from October to November.

Average Temperature
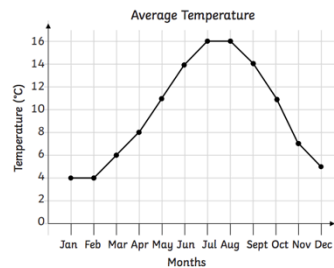
3. This graph shows the length of a shadow at each hour:

- When was the shadow shortest?
- What was the difference between the shortest and longest shadow?
- By how much did the shadow change between 8:00am and 10:00am?
- What time would you expect the shadow to be 120cm again?

Shadows From a 50cm Stick
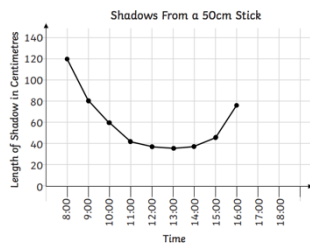
1. **Spot the Mistakes**. These are the mistakes:

   - Scale – 0, **5**, 10, 20, 30 40, 50, 60
   - **April** is missing on the graph.
   - The value for October should be **57** on the graph.
   - Title should be 'Average **Rainfall** in London'
   - **"Month"** and **"Average rainfall (cm)"** need to be swapped round.
   - Units are wrong in rainfall it should be **mm**.

2. **True or False.** Explain why each of the following statements are true or false.

   - False: 4°C
   - True: 16°C – 4°C or read on graph.
   - False: 5°C; 11°C is the temperature in May.
   - True: largest difference between points on the graph.

3. **Solve.** This graph shows the length of a shadow at each hour.

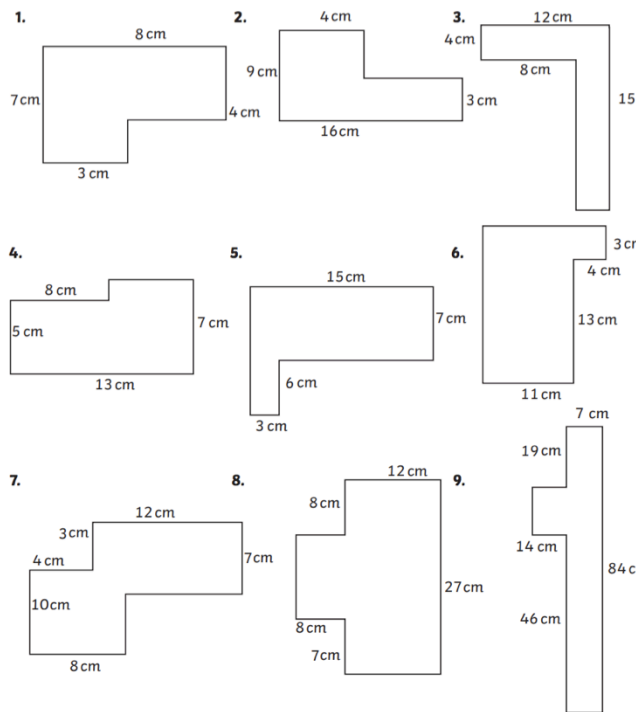   - 13:00
   - 81-82cm
   - 60cm
   - 17:00

Average in London

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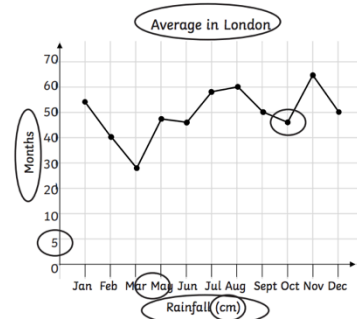
YEAR 5 HOMEWORK

2 × **4** = 8	40 = **4** × 10	12 × **12** = 144
3 × 1 = 3	**6** × 4 = 24	**6** × 5 = 30
10 = 5 × 2	3 × **7** = 21	4 × **11** = 44
4 × **4** = 16	8 × 11 = **88**	48 = 6 × **8**
10 × **6** = 60	7 × **5** = 35	9 × **10** = 90
2 × 4 = 8	**2** × 9 = 18	**2** × 6 = 12
16 = 8 × **2**	8 × **10** = 80	7 × 7 = **49**
5 × 3 = **15**	**6** × 2 = 12	**8** × 1 = 8
10 × 3 = 30	20 = **4** × 5	**9** × 9 = 81
12 × 1 = 12	12 × **6** = 72	36 = 12 × **3**
3 × **6** = 18	**9** = 3 × 3	10 × 12 = **120**
11 × 4 = 44	8 × **4** = 32	8 × **7** = 56

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YEAR 5 HOMEWORK

Add the length of each side to find the perimeter of each shape. Not to Scale.

1.
8 cm
7 cm
3 cm

2.
4 cm
9 cm
4 cm
16 cm

3.
12 cm
4 cm
8 cm
15

4.
8 cm
5 cm
13 cm

5.
15 cm
7 cm
6 cm
3 cm

6.
3 cr
4 cm
7 cm
13 cm
11 cm

7.
12 cm
3cm
4 cm
10cm
8 cm

8.
12 cm
8 cm
7cm
8 cm
7 cm

9.
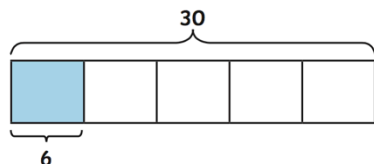7 cm
19 cm
14 cm
84 c
27cm
46 cm

Perimeter answers:

★ ★

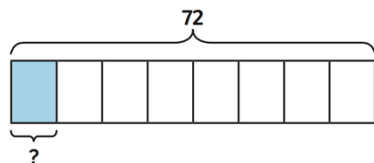1. 30
2. 50
3. 54
4. 40
5. 56
6. 62
7. 58
8. 94
9. 210

---

1) a) Use the bar model to help you find these fractions of 30.

30

6

$\frac{1}{5}$ of 30 = 6

$\frac{2}{5}$ of 30 = 12

$\frac{4}{5}$ of 30 = 24

b) Use the bar model to help you find these fractions of 72.

72

?

$\frac{1}{8}$ of 72 = 9

$\frac{3}{8}$ of 72 = 27

$\frac{7}{8}$ of 72 = 63

3. For each colour, write down the representation as a fraction, decimal and percentage.
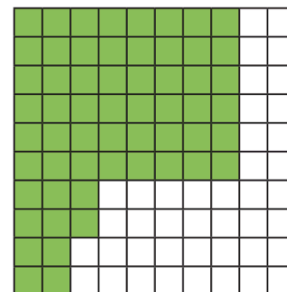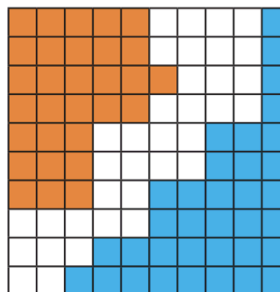
Orange – 30%, 0.3, 30/100
White – 35%, 0.35, 35/100
Blue – 35%, 0.35, 35/100

Green – 43%, 0.43, 43/100
White –57%, 0.57, 57/100

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YEAR 5 HOMEWORK

1 There are **250** children eating their lunch. **45** leave to go to the playground. **12** more children arrive to eat their lunch. How many children are eating now?

217

2 The Year 5 class has **33** pupils. Year 6 has **4** more pupils. How many pupils are in Year 5 and 6 altogether?

67

3 Lola's book has **350** pages. She reads **60** pages on Tuesday and **36** on Wednesday. How many pages does she have left to read?

154

4 **Two hundred and forty six** people go to the country park on Sunday. This is **54** fewer people than went on Saturday. How many people went to the country park on Saturday and Sunday altogether?

546

5 **3** children need **144** gold stars between them to win a prize. Sadia and Ayesha have **24** gold stars each. Bilal has **27** gold stars. How many more gold stars do they need to win a prize?

69

6 Charlie has **£100**. He spends **£18** on a game and **£45** on a new coat. He then spends **£22** on a t-shirt. How much money has he spent in total? Does he have enough money to buy a toy car for **£12**? Explain your answer.

£85. Yes, there is £15 left to buy a £12 car

7 Bilal thinks of a number. He adds **437** and then subtracts **67**. His answer is **852**. What was his first number?

482

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Page 1

1. 55, 5 × □
2. □, 3 × 9
3. 5, □ × 1

4. 8, 8 × □
5. □, 12 × 6
6. 32, □ × 8

7. 36, 3 × □
8. □, 3 × 1
9. 36, □ × 9

10. 20, 2 × □
11. □, 7 × 11
12. 28, □ × 7

1. 11
2. 27
3. 5
4. 1
5. 72
6. 4
7. 12
8. 3
9. 4
10. 10
11. 77
12. 4

Page 2

1. 24, 4 × □
2. □, 5 × 9
3. 48, □ × 12

4. 18, 9 × □
5. □, 5 × 5
6. 56, □ × 7

7. 49, 7 × □
8. □, 12 × 2
9. 70, □ × 7

10. 30, 6 × □
11. □, 7 × 12
12. 14, □ × 7

1. 6
2. 45
3. 4
4. 2
5. 25
6. 8
7. 7
8. 24
9. 10
10. 5
11. 84
12. 2

Complete the following fractions to make the fractions equivalent.

1. $\frac{1}{2} = \frac{4}{8}$

2. $\frac{3}{5} = \frac{6}{10}$

3. $\frac{3}{4} = \frac{12}{16}$

4. $\frac{5}{10} = \frac{1}{2}$

5. $\frac{7}{8} = \frac{14}{16}$

6. $\frac{2}{3} = \frac{8}{12}$

7. $\frac{1}{6} = \frac{4}{24}$

8. $\frac{1}{8} = \frac{2}{16}$

9. $\frac{2}{10} = \frac{1}{5}$

10. $\frac{2}{6} = \frac{1}{3}$

11. $\frac{4}{5} = \frac{16}{20}$

12. $\frac{4}{16} = \frac{1}{4}$

YEAR 5 HOMEWORK

8 Times Table Multiplication Wheels
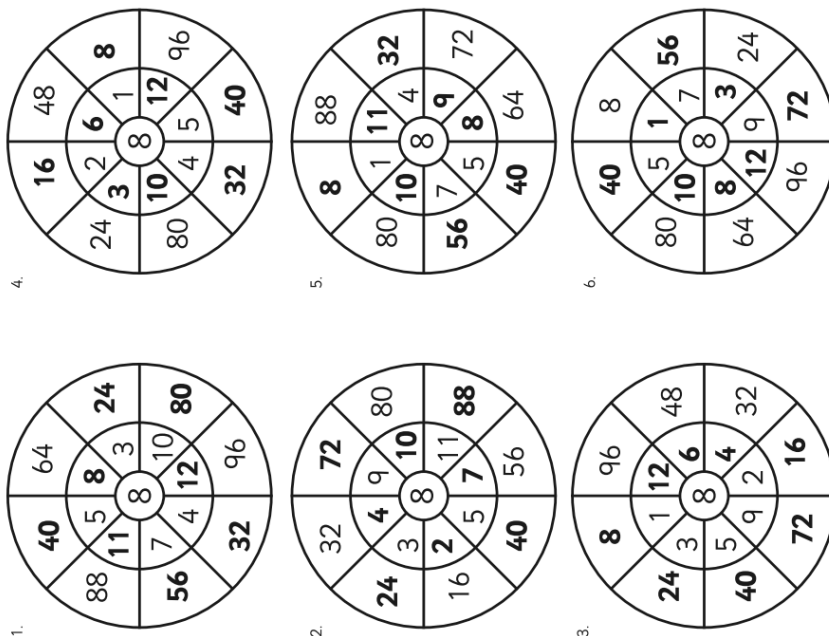
Maths Mastery - Addition and Subtraction Formal Methods

Answers

1.
```
   682
 + 283
 -----
  8165
```

```
  729
+ 364
-----
 1083
   1
```

```
  486
+ 347
-----
  833
```

80 + 80 = 160, but the hundred must be carried to add to the 600 + 200. The answer is 965.

The carried 10 must be added to the 8. The answer is 1093.

2.
```
  8 1 3
  - 417
  -----
   406
```

```
 6 7 1
   745
 - 261
 -----
  484
```

```
 5 10 1
   601
  - 437
  -----
   164
```

3.
```
4056 + 4943 = 8999
2175 = 6056 − 3881
7217 − 4941 = 2276
6802 = 11 399 − 4597
```

```
   743
 - 285
 -----
   458
```

```
   671
 - 374
 -----
   297
```

4.
```
   457
 + 286
 -----
   743
```

YEAR 5 HOMEWORK

Long Multiplication Practice - 3 Digits x 2 Digits **Answers**

1.

		1	6	1
x			2	3
		4	8	3
	3	2	2	0
	3	7	0	3

2.

		2	3	2
x			2	6
	1	3	9	2
	4	6	4	0
	6	0	3	2

3.

		6	1	4
x			1	8
	4	9	1	2
	6	1	4	0
1	1	0	5	2

4.

		9	6	9
x			9	5
	4	8	4	5
8	7	2	1	0
9	2	0	5	5

5.

		7	4	0
x			9	6
	4	4	4	0
6	6	6	0	0
7	1	0	4	0

6.

		3	6	2
x			5	8
	2	8	9	6
1	8	1	0	0
2	0	9	9	6

7.

		3	0	5
x			7	1
		3	0	5
2	1	3	5	0
2	1	6	5	5

8.

		3	7	0
x			6	4
	1	4	8	0
2	2	2	0	0
2	3	6	8	0

9.

		5	8	4
x			1	5
	2	9	2	0
	5	8	4	0
	8	7	6	0

10.

		8	5	1
x			8	9
	7	6	5	9
6	8	0	8	0
7	5	7	3	9

11.

		7	4	9
x			9	8
	5	9	9	2
6	7	4	1	0
7	3	4	0	2

12.

		4	8	2
x			2	3
	1	4	4	6
	9	6	4	0
1	1	0	8	6

13.

		6	4	6
x			1	0
				0
	6	4	6	0
	6	4	6	0

14.

		7	0	9
x			1	7
	4	9	6	3
	7	0	9	0
1	2	0	5	3

15.

		9	1	4
x			5	7
	6	3	9	8
4	5	7	0	0
5	2	0	9	8

16.

		7	1	8
x			4	5
	3	5	9	0
2	8	7	2	0
3	2	3	1	0

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YEAR 5 HOMEWORK

question	answer

1.
```
      2  0  r  1
2 | 4  1
```

2.
```
         3  2  r  1
8 | 2  5  7
```

3.
```
         4  4  r  3
9 | 3  9  9
```

4.
```
         4  2  r  4
5 | 2  1  4
```

5.
```
      7  7  r  6
7 | 5  4  5
```

6.
```
         9  6  r  3
9 | 8  6  7
```

7.
```
         8  6  r  3
5 | 4  3  3
```

8.
```
      2  7  r  2
5 | 1  3  7
```

9.
```
      6  2  r  5
7 | 4  3  9
```

10.
```
         6  1  r  1
8 | 4  8  9
```

11.
```
         3  1  r  1
11 | 3  4  2
```

12.
```
         2  4  r  1  0
12 | 2  9  8
```

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Curiosity Confidence Courage Constancy

YEAR 5 HOMEWORK

ADDITION

1	11884
2	10053
3	10483
4	10336
5	18753
6	10467
7	18260
8	14852
9	5181
10	16225
11	10162
12	12971
13	12535
14	11598
15	10078
16	12452
Challenge.	
1	2132 + 3152 = 5284
2	9617 + 6580 = 16 197
3	2567 + 5398 = 7965
4	8821 + 2060 = 10 881

SUBTRACTION

1	3976
2	652
3	3439
4	930
5	1698
6	1165
7	661
8	7818
9	2018
10	4272
11	1190
12	379
13	4231
14	761
15	2077
16	3249
Challenge.	
1	9245 - 7526 = 1719
2	2635 - 1267 = 1368
3	7597 - 2626 = 4971
4	2708 - 1633 = 1075

PHASE 3

Hampton Vale Primary Academy

YEAR 5 HOMEWORK

ANSWERS - PACK 3

Please see answers to each task set for
Writing
on the following pages.

PHASE 3

Hampton Vale Primary Academy

Curiosity Confidence Courage Constancy

YEAR 5 HOMEWORK

a Can you circle the relative pronoun in this sentence?

The kaka parrot, (which) had brightly coloured plumage, perched high up in the rainforest canopy.

b Can you think of a word that ends in either -cial or -tial that matches this definition?

Absolutely necessary

essential

a Add a possessive pronoun:

Bobby packed up everything that was _____ his _____ and set off for a new life at university.

b Rewrite this sentence with the adverbial at the beginning.

Lucy measured her height every few weeks.

Every few weeks, Lucy measured her height.

(Must have comma to demarcate the adverbial)

c Tick the sentence that uses the plural possessive apostrophe correctly:

The pupils lessons' were much more interesting now that they had a new teacher. ☐

The pupil's lessons were much more interesting now that they had a new teacher. ☐

The pupils' lessons were much more interesting now that they had a new teacher. ✓

d Tick to show whether the underlined word is being used as an adverb or an adjective.

Sentence	Adverb	Adjective
The fisherman pulled hard at his line.	✓	

c A prefix word in each of these sentences is incorrect. Rewrite the prefix words correctly.

It is disappropriate to talk back to an adult.

inappropriate

The stolen trophy was ilreplaceable.

irreplaceable

d Rewrite each sentence in the tense shown in brackets.

We look after my neighbour's pet snake. (present progressive)

We are looking after my neighbour's pet snake.

Last night, the snake escape. (past perfect)

Last night, the snake had escaped.

e Choose the correct form of the verb 'to have' to fit into these sentences. Draw a line to match each sentence to the correct verb.

Later today, we are ___a party for my Grandma's 65th birthday. — having

The boys ___ a fantastic time at cub scout camp. — had

My friends all ___ very different personalities. — have

f Mr Whoops has been juggling with the letters from one of his Y5 spelling words. Can you spot what it is?

r i t e a v y

variety

e Mr Whoops has made three clumsy spelling mistakes in his sentences. Can you underline them and correct them?

As I'm now head coach, I tried hard to **cumunicate** the **nessecary** information to my team. If they follow my strict training **proggramme**, we can win the league.

communicate   necessary

programme

f Choose 'a' or 'an' as determiners in these sentences:

When she grows up, my sister wants to be either _____ an _____ acrobat or _____ a _____ ballerina.

She gives me ___a___ headache talking about it.

YEAR 5 HOMEWORK

Mini SPAG test 3

1. Complete the sentences below using either I or me.

_____ pulled out the keys from my pocket.

She asked _____ to help her put up the pictures.

My team and _____ are playing next week.

Why isn't anyone able to understand what _____ am trying to do?

I had to help with the washing up before Dad would turn on the television for _____.

1 mark

2. Write a sentence using inverted commas appropriately.

....   1 mark

3. Put a tick in each row to show whether the sentence is a statement, a command or a question.

	Sentence	Statement	Command	Question
How are you				
Go to bed				
I like horse riding				

All correct answers 3 marks

4. Complete the sentence below by choosing the correct contraction.

Even if you want to, you .... go to the park.

   - They'll   - Can't   - I'll   1 mark

5. Add a prefix from the list to this word to make an adjective.

............happy

   -   Mis   - Un   - In   1 mark

Total marks (out of 7) = _____ .

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YEAR 5 HOMEWORK

Each sentence below has one word that is incorrect. Write the correct spelling of the word in the box.

1. How could Sarah perswad her mum to stay out later?	persuade
2. The school trip was to an anshient temple.	ancient
3. Mohammad really wanted to win the compitishion.	competition
4. Loki, the dog, hated thunder and litening.	lightning
5. There was a worrying sound coming from the vehcle.	vehicle
6. It won't be nesesary.	necessary
7. The tempracher in the classroom was increasing	temperature
8. The lady next door was being a newsance.	nuisance

The spelling mistakes in these sentences have been circled. Write the correct spelling for each circled word in the box.

1. The hotel was too small to (acomodate) the large party.	accommodate
2. They lived in a friendly (comunatey).	community
3. "Mum, you always (egagerate)!" shouted James.	exaggerate
4. Year 5 (freqentle) got all of their spellings correct.	frequently
5. They were asked to leave (imediatley).	immediately
6. The ugly sisters would always (critsise) Cinderella.	criticise
7. Dad hurt a leg (musle) whilst jogging.	muscle
8. They had a (marvelus) first day at school.	marvellous

YEAR 5 HOMEWORK

ANSWERS - PACK 3

Please see answers to each task set for
READING

Metamorphosis

Metamorphosis is a process by which animals undergo an abrupt and obvious change in the structure of their body and their behaviour. Some animals undergo complete metamorphosis, in which they completely transform. Other animals experience incomplete metamorphosis, where they go through several different stages, with each stage getting bigger than the last.

Complete metamorphosis has four distinct stages: egg, larva, pupa and adult (for example a frog or butterfly) and the animal looks very different at each stage. Incomplete metamorphosis has three distinct stages: egg, nymph, and adult (for example a dragonfly or grasshopper) and the young animal (nymph) looks like a smaller version of the adult.

Quick Questions

1. Find and copy two words in the text that mean the same as 'change'.
   Accept: transform and metamorphosis.

2. Name two animals from the text that go through complete metamorphosis.
   Accept: frog and butterfly.

3. Describe two ways in which complete and incomplete metamorphosis are different.
   Accept reference to amount of stages and how the young animal looks.

4. Explain why the word 'abrupt' has been used to describe metamorphosis.
   Accept any reference to metamorphosis being sudden or unexpected.

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Curiosity Confidence Courage Constancy

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The Sun

Answers

1. What gases is the Sun mainly made from?

Hydrogen and helium

2. How long does it take energy to reach Earth from the Sun?

8 minutes

3. How far away is the Sun from Earth?

149.6 million km

4. What type of star is the Sun now?

A yellow dwarf

5. List the different layers of the Sun from the centre to the outside.

Core, radiative zone, convection zone, the photosphere, chromosphere, corona

6. What keeps our solar system of planets orbiting the Sun?

The Sun's gravity

7. Solar means 'relating to the Sun'. Think of another example where we use the word 'solar'.

Any including: solar panels, solar energy, solar power, solar eclipse, solarium, solar cell, solar year

8. Will the Sun last forever? If not, why not?

No. It will use all its energy eventually.

9. In the final paragraph it says that Earth will become 'a bit like a greenhouse'. A greenhouse is warm and moist inside because of the glass that lets heat and light in and keeps it in. Our Earth is not surrounded by glass, so what will let the heat and light in and keep it in?

The atmosphere

10. Look at the final line - where do you think humans will be by then?

Open ended for discussion.
There's every possibility we may be in other solar systems or galaxies by then.