



Rocket Learn
Tutoring done differently

2022 Summer Summer School

Parents Guide & Answer Booklet



RocketLearn
Tutoring done differently

Welcome to the RocketLearn Summer School

Welcome to our Summer School booklet!

This booklet gives you the answers to the questions posed in the student workbooks, together with some tips on how we teach certain topics, which we hope you will find useful.

Compared to previous RocketLearn Holiday Camps, the Summer School is much more flexible; although we have created a two week timetable, it is up to you how and when you use our resources. The timetable is simply there for families who like structure.

Both weeks (Week A and B) are available from the 12th July until the 3rd September, meaning you can fit the Summer School around your families summer plans.

The maths sessions during Week A will be on Place and Value, whilst Week B maths will be a 'mash up' of all the topics children will have covered during the academic year.

The English lessons for our Summer School are all about reading and why it is so important. Children will learn how to choose a book, how to review one and will even meet (virtually) a famous author!

Two new and exciting additions to our Summer School are PE Challenges and wellbeing sessions! Our PE Challenges are a fun way to test your agility, balance and skill, whilst getting the whole family involved! Wellbeing has never been more important therefore we felt it essential to include it into our Summer School; the session will look into 'thinking to help you', including differentiating beliefs from facts and managing the imagination.



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We have provided each child with a workbook – we ask that you mark the Maths using this booklet. There are also daily online Kahoot! quizzes and an end of week online quiz/test- any children who complete it will receive a certificate for their efforts – we believe rewarding and recognising children's achievements is key to helping them engage and learn.

We very much hope your child enjoys this RocketLearn Camp. Our holiday camps are one part of our successful RocketLearn Programme. Using highly experienced professional teachers together with leading AI ed-tech learning platforms, our programme helps individual children make rapid progress, and gives parents confidence and oversight as to how their child is doing. Our prices start at only £10/week – do have a look on our website if you think this is something which may be of interest to your family. The individual approach means that RocketLearn works for all – children who need stretching or those who need a little extra support.

We hope you enjoy the Summer School and have a lovely summer!

The RocketLearn Team.

Guidance

English

The focus for the English is on reading. We want children to love reading, as not only is it good for expanding their vocabulary, reading is also great for your mental health. Our reading list will form the basis of the activities, with children being encouraged to understand why reading is awesome and then pick a book to review and summarise. Excitingly we are also hosting an 'Interview with an Author'! Thomas Taylor, author of the fantastic Malamander, will be providing top tips for writing brilliant stories. During the interview children will discover what you need to do to become a famous author and finding out some secrets about what Thomas is planning next! We have not given any set answers as we hope that children will write about what appeals to them. If you would like feedback on your child's writing please do submit it to ideas@rocketlearn.co.uk and we will provide feedback.

Maths

The maths during the Summer School week will for one week focus on place and value and then for the second week will be a 'mash up' of all topics your child will have covered during the academic year.

PE Challenges and Wellbeing

We have two new features for our Summer School, PE challenges and Wellbeing sessions! Our PE challenges, provided by PEChallenges.com are short tasks designed to test your agility and to also get the whole family involved!

Wellbeing has never been more important, as a result we asked our RocketLearn parents if they would like our Holiday Camps to include wellbeing sessions and the response was overwhelmingly positive! Therefore, we are delighted to include daily wellbeing sessions in our Summer School! The theme of our wellbeing sessions is 'Thinking to Help you', this includes understanding the difference between facts and beliefs, acknowledging that sometimes taking a break is necessary and controlling your imagination.

Answers

Bronze - Mathematics WEEK A

Day 1

Answers

1) Line 1: eighteen

Line 2: seven, thirty-nine, seventy

Line 3: four

Line 4: fifty-eight, seventy-three

Line 5: thirty, thirty-two, seventy-five

2) Fifty, two hundred, one thousand

3) 301, 648, 201, 263, 755

4) 2171, 5942, 3395, 6762, 5051, One thousand five hundred and fifty-five, Two thousand two hundred and fifty-seven, Three thousand four hundred and seventy-eight, Six thousand nine hundred and twelve, Four thousand one hundred and sixty-eight

Notes for parents:

Don't worry if your child doesn't finish all of the questions - please ask your child to stop after 30 minutes. We've got a whole week to revisit concepts and we want to keep your child nice and enthusiastic!

Day 2

Answers

1) 50 2) 40 3) 67 4) 34 5) 5 6) 8 7) 60. 8) 50 9) 39 10) 64 11) 2 12) 7 13) 80 14) 100
15) 6 16) 40 17) 2 18) 20 19) 200 20) 10 21) 2 22) $400 + 60 + 4$ 23) $400 + 10 + 5$
24) $100 + 20 + 9$ 25) $600 + 90 + 6$ 29) $200 + 40 + 4$ 30) $800 + 20 + 3$

Day 3

Answers

1) Any two numbers which when added together = 65

2) Any two numbers which when added together = 84

3) Any two numbers which when added together = 98

4) Four thousand + three hundred + 10 + six

5) Seven thousand + six hundred + seventy + nine

6) Six thousand + 200 hundred + eighty + five

7) Nine thousand + four hundred + twenty + seven

8) Eight thousand + nine hundred + sixty + seven

Bronze - Mathematics WEEK A

Day 4

Answers

- 1) 256
- 2) 468
- 3) 85
- 4) 689
- 5) 2943
- 6) 7451
- 7) 8768

- 8) 5650
- 9) 3700
- 10) 1980

- 11) 8652
- 12) 2568

Day 5

After today's lesson, there is an online quiz. There is a clickable link on the webpage.

This is a multiple choice quiz to help the children review what they have learned (RocketLearn members - your academic coach will go through any gaps with you). It is based upon all the work that we have completed in the booklet this week. The children will immediately see how they have scored and they can re-take it if they wish. Scores of 10+ will result in an electronic certificate being sent to you.

Bronze - Mathematics WEEK B

Day 1

Answers

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)

- 8)
- 9)
- 10)

- 11)
- 12)

Day 2

Day 3

Day 4

Day 5

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Answers

Silver - Mathematics WEEK A

Day 1

Answers:

Getting Started:

1.) 80 2.) 300 3.) 2000 4.) 80 5.) 6000 6.) 6 7.) 900 8.) 5000 9.) 70
10.) 500

In the Zone:

11.) 300 12.) 9 13.) 2000 14.) 40 15.) 60000 16.) 800 17.) 100000 18.) 5000 19.) 60000

Genius Level:

20.) 2729291 21.) 1550318 22.) 1730496 23.) 2259178 24.) 3760420 25.) 283562 26.)
2031517 27.) 2620190

Notes for parents:

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Day 2

Answers:

Getting Started:

1.) 2535 2.) 6212 3.) 5126 4.) 8331 5.) 3579

In the Zone:

6.) 64470 7.) 94118 8.) 288575 9.) 325514 10.) 634819

Genius Level:

11.) 1613085 12.) 7605085 13.) 12613085 14.) 7622085 15.) 7683085 16.) 2639340
17.) 12267189 18.) 4461084

Answers

Silver - Mathematics WEEK A

Day 3

Answers:

Getting Started:

1.) 250 2.) 700 3.) 3230 4.) 5800 5.) 2500 6.) 9500 7.) 1700 8.) 8000

In the zone:

9.) 22000 10.) 52000 11.) 16000 12.) 170000 13.) 60000 14.) 100000 15.) 50000 16.) 210000

Genius Level:

17.) 900000 18.) 600000 19.) 900000 20.) 600000 21.) 2000000 22.) 5000000 23.) 3000000 24.) 8000000

Day 4

Getting started :

1.) 2 2.) 1 3.) 6 4.) 3

In the zone:

5.) -4 6.) 10 7.) Less than or > 8.) -6

Genius Level:

9.) 3 10.) 10 11.) 9 12.) 13 13.) 8 14.) -5, -3, 0, 1, 2

Day 5

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Silver - Mathematics WEEK B

Day 1

Answers:

Getting Started:

1.) 33 minutes 2.) 6 3.) 12.39 4.) 8.15 5.) 22 minutes

In the Zone:

6.) 4 7.) 12.53 8.) 13.07 9. a) 11.09 b) 11.46

Genius Level:

10.) 12.00 11.) 1hr 21mins or 81 minutes

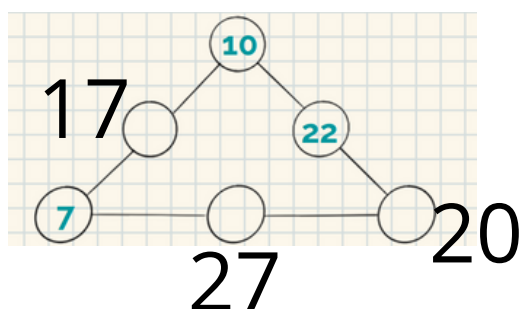
Notes for parents:

Don't worry if your child doesn't finish all of the questions - please ask your child to stop after 30 minutes. We've got a whole week to revisit concepts and we want to keep your child nice and enthusiastic!

Day 2

These questions involve finding numbers so that the middle bubble on each side has to be the sum of the two either side of it. For example if the numbers are 7 - ? - 8 the missing number in the middle will be 15.

1.



When you are only given the numbers in the middle the questions get trickier.

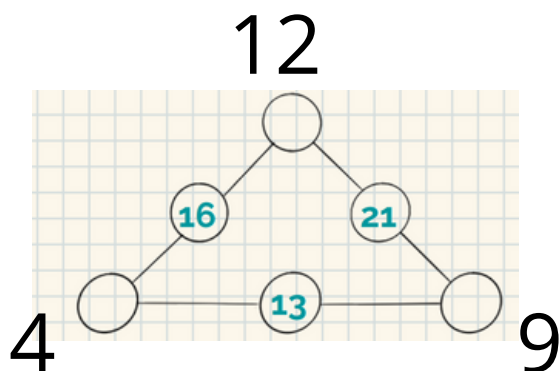
Here is the working for question 2:

Step 1: Add up the numbers in the middle ($16+21+13$) = 50.

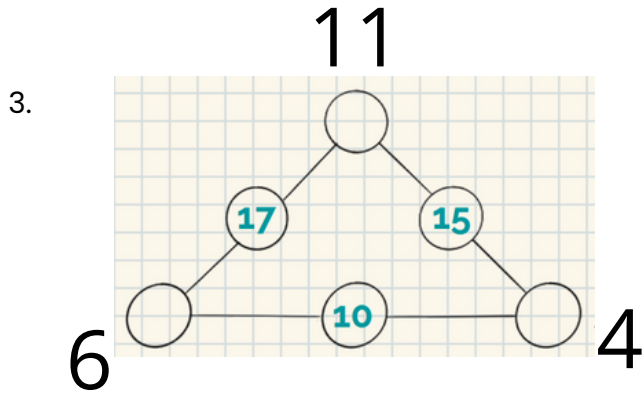
Step 2: Divide this by 2 which gives 25.

Step 3: We know that 25 will be the sum of the two opposite numbers. So in this case the number opposite 21 will be 4. The number opposite 16 will be 9 and the number opposite 13 will be 12.

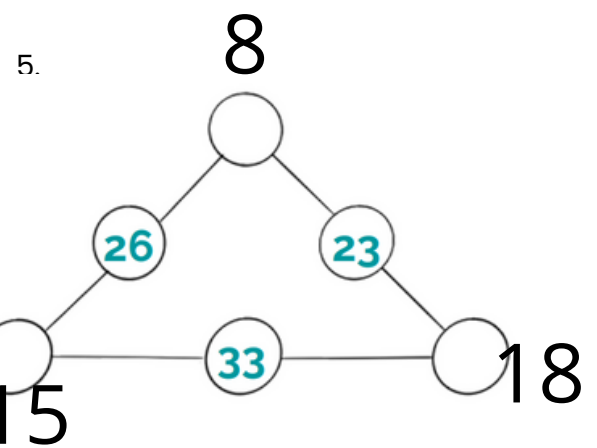
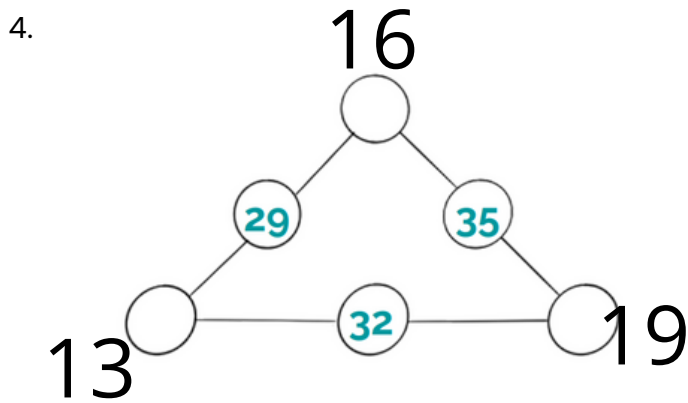
2.



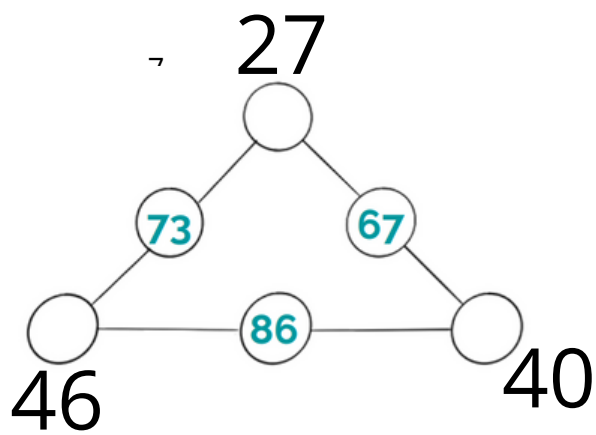
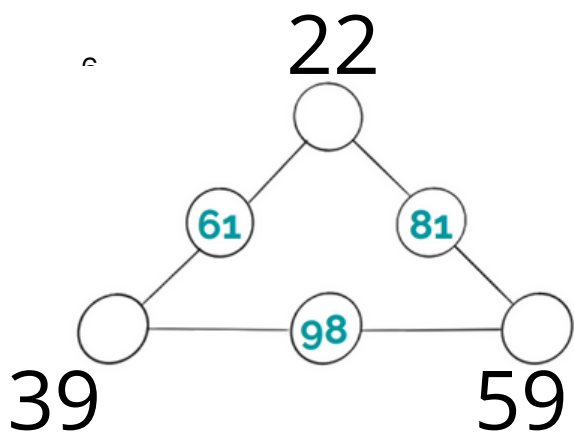
Silver - Mathematics WEEK B



In the zone:



Genius level:



Silver - Mathematics WEEK B

Day 3

Answers:

Getting Started:

1.) 4 2.) 14 3.) 144 4.) 6 5.) 11

In the Zone:

6.) 343 7.) 5 8.) 1728 9.) 10 10.) 3

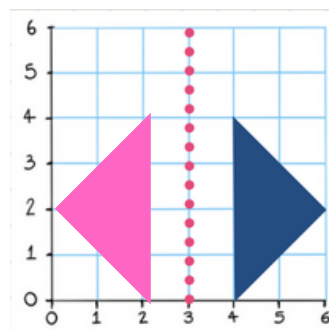
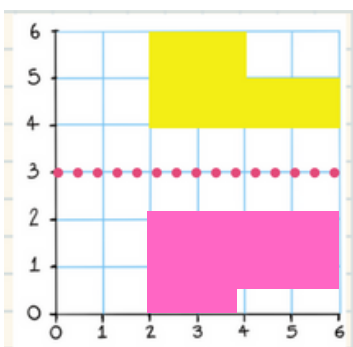
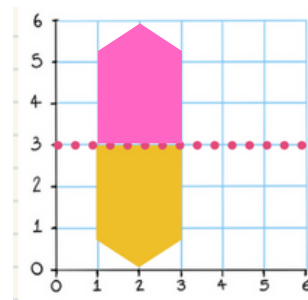
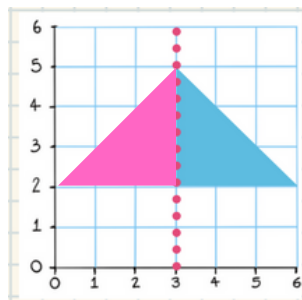
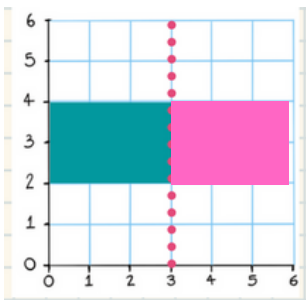
Genius Level:

11.) 500 12.) 70 13.) 200 14.) 1000 15.) 110 16.) 8000 17.) 216000 18.) 1000000
19.) 343000 20.) 3375

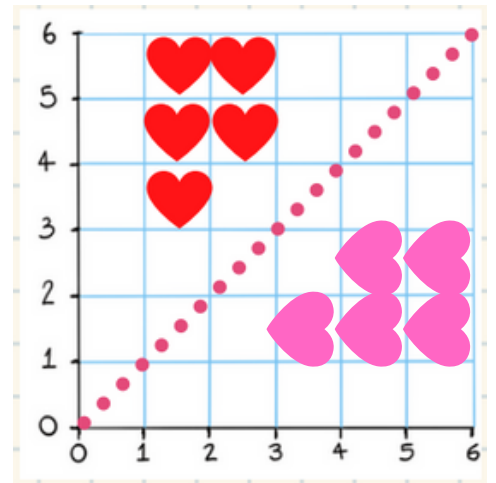
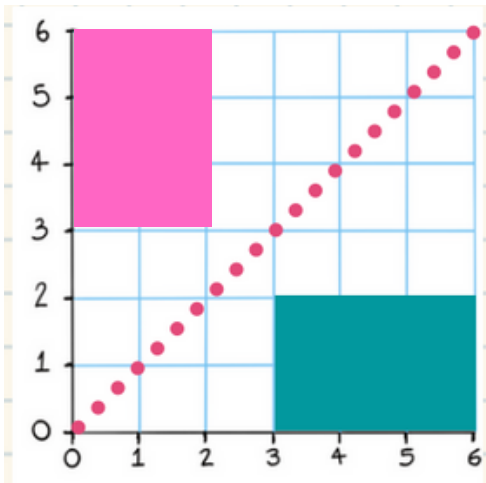
Notes for parents:

Don't worry if your child doesn't finish all of the questions - please ask your child to stop after 30 minutes. We've got a whole week to revisit concepts and we want to keep your child nice and enthusiastic!

Day 4



Silver - Mathematics WEEK B



Day 5

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Answers

Gold - Mathematics WEEK A

Day 1

Answers

Getting started:

1) 3280 2) 4850 3) 11300 4) 59760
5) 22300 6) 79900 7) 51900 8) 116500

In the zone:

9) 182000 10) 409000 11) 3730000 12) 1028000 13) 4250000 14) 2730000 15) 6070000
16) 9300000

Genius level:

17) 900000 18) 600000 19) 80000 20) 1000000 21) 2000000 22) 5000000
23) 3000000 24) 8000000

Notes for parents:

Don't worry if your child doesn't finish all of the questions - please ask your child to stop after 30 minutes. We've got a whole week to revisit concepts and we want to keep your child nice and enthusiastic!

Day 2

Answers:

Getting Started:

1.) -1, 0, 1, 2.) 6, 4, 2, 0, -2, -4, -6 3.) 0, 3, 6, 9, 12 4.) -10, 0, 10 5.) -5, -2, 0

In the Zone:

6.) 3 7.) -5 8.) -9 9.) -8 10.) -11

Genius Level:

11.) (A) -52 (B) -28 (C) -6 (D) 14 (E) 32
12.) (A) 20 (B) 84
13.) (A) -28 (B) -16 (C) -24 (D) 4

Answers

Gold - Mathematics WEEK A

Day 3

Answers

Getting Started:

All rows / columns / rows / diagonals add up to the same number. All questions contain a complete line, add up that line and with the answer you can work out the rest!

(1)

9	22	11
16	14	12
17	6	19

(2)

26	29	14
11	23	35
32	17	20

(3)

25	10	19
12	18	24
17	26	11

In the zone:

(4)

0	-5	2
1	-1	-3
-4	3	-2

(5)

-1	6	-5
-4	0	4
5	-6	1

Gold - Mathematics WEEK A

Genius level:

(6).

-1	0	1
6	-2	-4
-5	2	3

(7)

2	-7	8
7	1	-5
-6	9	0

(8)

-2	11	0
5	3	1
6	-5	8

Day 4

In the zone:

- (1) 884
- (2) 2,646
- (3) 7,446
- (4) 161, 283
- (5) 344,112

Genius Level:

- (6) 675,780
- (7) 1,434, 324
- (8) 13.93KG

Gold - Mathematics WEEK A

Day 5

Round up and quiz

After today's lesson, there is an online quiz. Your child can undertake by clicking the link on the web page.

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ANSWERS
Gold - Mathematics WEEK B

Day 1

Getting started:

1.) 5 2.) 7 3.) 2.5 4.) 3 5.) 20

In the zone:

6.) 2400km 7.) 28 8.) 807 9.) 129,600

Genius level:

10.) 108.3 11.) 5

Day 2

These questions involve finding numbers so that the middle bubble on each side has to be the sum of the two either side of it. For example if the numbers are 7 - ? - 8 the missing number in the middle will be 15.

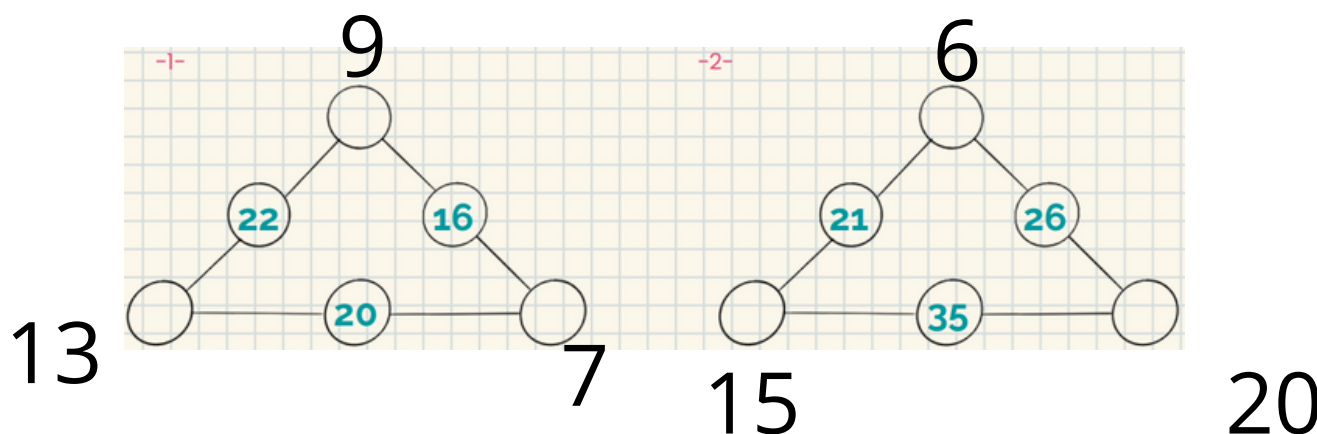
When you are only given the numbers in the middle the questions get trickier.

Here is the working for question 1:

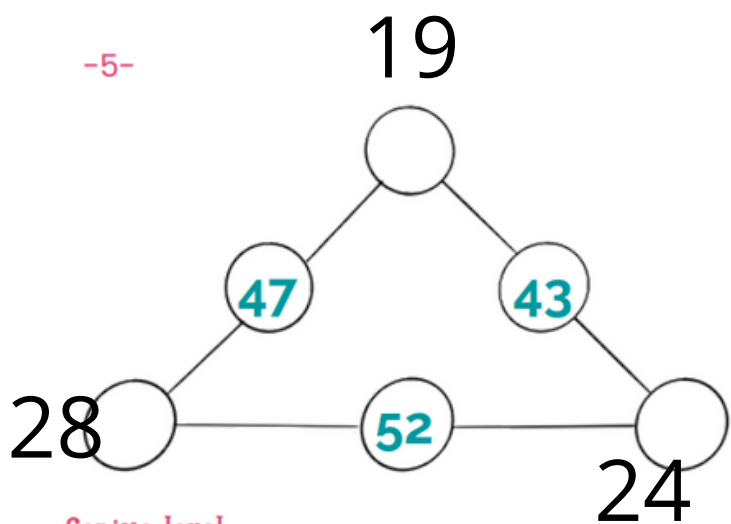
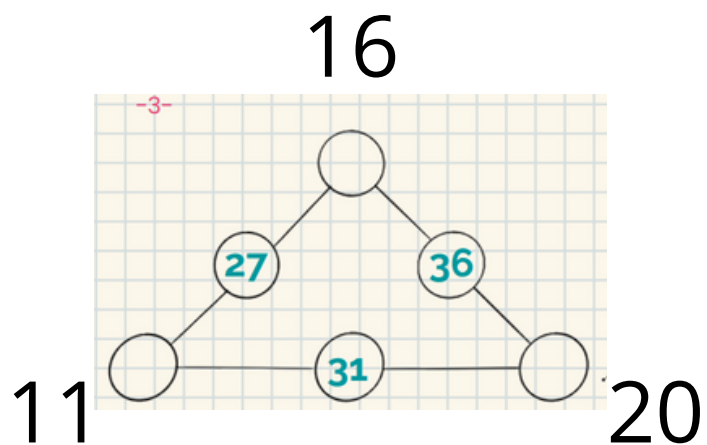
Step 1: Add up the numbers in the middle ($16+22+20$) = 58.

Step 2: Divide this by 2 which gives 29.

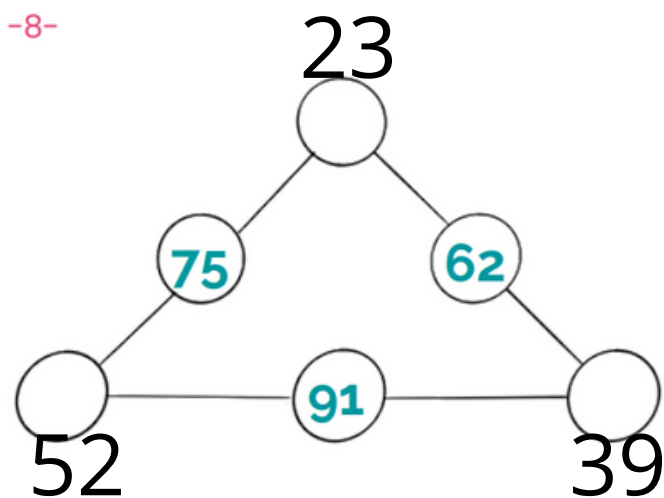
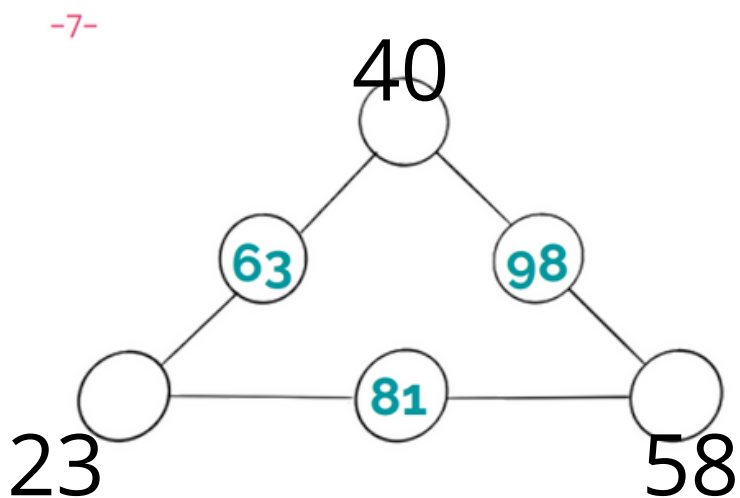
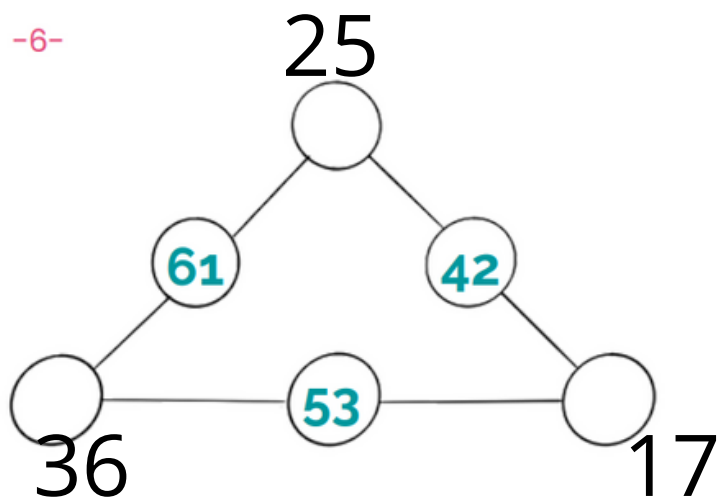
Step 3: We know that 29 will be the sum of the two opposite numbers. So in this case the number opposite 22 will be 7. The number opposite 16 will be 13 and the number opposite 20 will be 9.



ANSWERS
Gold - Mathematics WEEK B



Genius level...



ANSWERS
Gold - Mathematics WEEK B

Day 3

Getting Started:

1.) 4:3 2.) 4/7 3.) 12 4.) 148m 5.) 135g 6.) £5.60

Genius Level:

7.) 329 8.) 1500 9. a) £7.68 b.) £2.64

Day 4

1.) $Y = 3$

$X = 2$

$X = 0 Y = 5 / X = 5 Y = 0$

2.) $Y = 2$

$Y = 6$

$X = 8 Y = 0$

$X = 7 Y = 1$

$X = 5 Y = 3$

3.) $Y = 1$

$X = 2$

$X = 7 Y = 0$

$X = 6 Y = 1$

$X = 4 Y = 3$

In the zone:

4.) $X = 2 Y = 6$

$X = 6 Y = 3$

5.) $S = 2 t = 8$

$S = 5 t = 3$

ANSWERS

Gold - Mathematics WEEK B

Genius Level:

$$6.) p = 4 \quad q = 1$$

$$p = 9 \quad q = 7$$

$$7.) g = 5 \quad h = 5$$

$$g = 9 \quad h = 12$$

Day 5

Round up and quiz

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Thank you from our founder

We hope your child(ren) enjoyed the Camp and it has given you a little insight into us. As former school leaders we are passionate about using the best of educational technology together with teacher expertise to give children a personalised learning journey.

On RocketLearn there is no need for booklets or scheduled lessons – all work is done via the latest electronic learning platforms, using Artificial Intelligence (AI) so that children have questions that adapt to their pace of learning.

We believe every child is different and learns differently. We also know how important it is that parents are involved in their child's learning journey. An important aspect of our programme is the monthly feedback in the form of a report enabling you to see how your child has progressed and to enable targeted intervention where needed. For example it might be that a child is outstanding at mathematics yet struggles with a certain topic; with our platforms, we can immediately identify difficulties and remedy these through specific learning.

In short, RocketLearn combines the best of technology with years of teaching experience to offer a cost-effective and efficient way to improve academic performance – irrespective of your child's present academic ability.

We currently have pupils who are working way beyond the expectations for their year group together with those who have fallen behind. Spending an hour a week on our programme leads to significant improvement for children. We are proud of RocketLearn and believe there to be nothing else like it on the market – having launched in September 2020 we have been overwhelmed with the positive feedback we have received from our small, but growing, community.

If you would like to learn more please do give us a call, visit our website or email us at info@rocketlearn.co.uk. Our programme starts from only £10/week and you can cancel at any time.

With best wishes

David Winfield
Founder, RocketLearn