Deep-sea Diving - Answers

*T*he deep-*sea* diver looked nervously at the ocean around him*.* One by one, waves crashed into the side of his rocking boat. *I*n a few seconds, he was going to have to enter these *dangerous* waters. He anxiously put on his goggles*,* flippers and *oxygen* mask*.* *H*e dived into the *freezing* waters below and hoped for the best.

*H*e felt the icy water cover him like a blanket. Rainbow fish darted in and out of the coral*.* For a few minutes*,* he *felt* calm and happy. *Suddenly*, a giant shark *appeared* out of nowhere*.* *T*he diver swam furiously back towards his boat. He decided never to dive in this part of the *ocean* ever again*!*

Professor Fizz's Potion - Answers

*P*rofessor *F*izz clutched the miracle potion in his gloved hand. *F*or many days and nights, he had been trying to *perfect* this recipe. Now that the brew was exactly *right*, it was time for a test*.* *R*emoving his gloves, he pulled the cork from the top of the *bubbling* beaker. In one gulp, he *drank* the entire potion and waited*.*

Almost immediately*,* Professor Fizz began to feel *very* strange. In a matter of seconds, his eyes started to feel very hot*.* The hairs on his arms and legs started to *twitch*. While that *was* happening, he heard a strange whistling sound *coming* from inside his ears. *P*rofessor Fizz hoped that he *wouldn't* have any more strange *reactions* to his potion*!*

The Racoon and the Golden Nugget

1. The author could have written this text for children, teenagers, adults, greedy people, people who care more about money than food (and so on).

2. The author decided to include the flying bird in the story to try and give the racoon a choice and to create a complication to the story.

3. The author sees money as less important than the essential things needed in life. The author thinks money and objects are not as important as food and shelter.

4. The moral of the story is that you can't eat gold. Money can't always make you happy. There are other things that are more important than being rich, such as food.

Staying at Home

1. Pros for Molly staying home include wearing pyjamas, eating food, watching TV, playing games, freedom.

    Cons for Molly staying home include having no friends, getting bored, watching the same TV show.

2. Pros for going to school include seeing friends, doing arts and crafts, playing musical instruments.

    Cons for going to school include listening to the teacher, wearing a uniform, limited range of food, no talking.

3. At school, Molly can play with her friends.

Making Inferences

1. Hudson broke the vase with his football.

2. I think Hudson left because he knew he was going to get into trouble.

3. Sabrina was going to the pool. Sabrina felt sad because her shoulders sagged and she had tears in her eyes.

4. Senith is a house painter. The clues in the text include: he was putting the lid back on a paint tin, washing his paint brushes, washing paint off his hands and going back tomorrow to finish painting the back of the house.

Nelly the Nurse

1. c) a nurse giving sick patients a lollypop every day

2. c) a nurse flying

3. b) a nurse getting a cake for her birthday

4. This story is make-believe because:

- It is highly unlikely a nurse would give sick people lollypops every day.

- People cannot fly.

- It is unlikely a person's stitches would come undone from laughing.

Ultimate Frisbee

1. In the text, the word **field** means

    c) a piece of land marked out for a game or sport.

2. I bought some flowers from the florist **stall** at the markets.

3. Other words for **throws** include: propels, hurls, tosses, launches, sends.

4. The **offensive team** is the attacking team who are trying to reach their end zone.

Johnny's Amazing Milkshake

1. Johnny was looking forward to going home, so

    c) he could make an amazing milkshake.

2. Johnny's little sister drank all the milk, so Johnny went red in the face with anger.

3. There was no milk, so

    a) Johnny stormed off to the local store to buy some.

4. Johnny's mother came home with two cartons of milk, so there was enough milk to make everyone an amazing milkshake.

Lightning

1. b) small bits of ice bump into each other

2. Order of events:

    2 - The whole thundercloud fills up with electrical charges.

    4 - A positive charge builds up on the ground beneath the cloud.

    5 - A lightning strike is formed.

    3 - The positive and negative charges separate.

    1 - Frozen raindrops collide to create an electric charge.

3. The final step before seeing a lightning strike is when a charge coming up connects with a charge reaching down from the clouds.

Exercise is Cool!

1. Boosting brainpower is important because we have lots to learn each day at school.

2. I think having more energy is great because you can get more things done each day.

3. No-one likes feeling sick, so it's good that exercise can help to keep you healthy.

4. It would be awful if something happened to our hearts; we need to keep them healthy.

The Great Wise Owl

1. The main idea of this text is owls; what they look like, where they live, what they eat and how they reproduce.

2. Three details may include:

   - the body features of an owl

   - the habitat of owls.

   - the reproduction of owls.

3. Important words include: owls, nocturnal, sharp beak, powerful claws, feathers, camouflage, different habitats, carnivore, lay eggs.

4. Another good title for this text could be

   b) All about the Owl.

What's for Dinner?

1. Answers will vary. Teacher to check reasoning.

2. Answers will vary. Teacher to check reasoning.

3. It is most likely that only the main character and their Mum live in the house as there is no mention of any other characters.

4. It is most likely Mum made spaghetti bolognaise for dinner. Clues include spaghetti, mince, jar of sauce, onions, tomatoes and basil.

The History of the Cacao Bean

1. The Maya Indians first started growing cacao trees around 600 AD in Mexico.

2. Cacao beans were used as a form of currency, to pay taxes and to make a bitter drink.

3. The Spanish added sugar to the bitter drink to make it enjoyable and sweet.

4. A Danish chemist, Joseph Fry, created the first modern chocolate bar. He added alkaline salts and removed fats from a powdered form of cacao to make the chocolate bar.

Addition and Subtraction (Middle Grades)

Answers

1. 169 cm + 15 cm = 184 cm (Brian's height)

    182 cm + 169 cm + 184 cm = 535 cm

    The combined height of Shinji, Jane and Brian is **535 cm** or **5.35 m**.

2. Largest number = 964 320

    Smallest number = 203 469

    964 320 – 203 469 = 760 851

    The difference between the largest number and the smallest number is **760 851**.

3. $1299 - $249 = $1050

    $3423 - $1050 = $2373

    Janine will have **$2373** left once she purchases the discounted laptop.

4. 1 + 2 + 4 + 2 = 9 (Goals scored in the first four games)

    3 + 1 + 0 + 2 = 6 (Goals conceded in the first four games)

    12 – 9 = 3 (Goals scored in the last game)

    7 – 6 = 1 (Goals conceded in the last game)

    The red team won the last game. The score was **3-1**.

5. The first number is 2.

    2 + 4 = 6 (This is the second number)

    2 + 6 = 8 (This is the third number)

    8 – 2 = 6 (This is the fourth number)

    Muhammed's password is **2686**.

6. 321 – 126 = 195 (My current score)

    195 + 60 + 6 + 5 + 3 + 18 + 5 + 14 + 22 = 328

    I am **winning**.

7. 3.2 km + 5.4 km + 8.9 km = 17.5 km

    22 km – 17.5 km = 4.5 km

    Neil ran **4.5 km** on the fifth day of training.

8. 93 – 23 = 70

   70 – 48 = 22

   22 – 5 = 17

   17 people got off the train at the second station.

9. $159.95 - $83 = $76.95

   $76.95 - $20 = $56.95

   The profit on each skateboard sold is **$56.95.**

10. 15 (Chicken)

    15 – 8 = 7 (Vegetarian)

    7 + 14 = 21 (Beef)

    15 + 7 + 21 = 43

    43 sandwiches were sold in total.

11. 36 829 + 48 293 = 85 122 (Germany and Argentina supporters)

    96 239 – 85 122 = 11 117 (Neutral supporters)

    There were **11 117 neutral supporters** in the stadium.

12. 4 + 6 + 3 = 13 (First plate of sushi)

    2 + 4 + 1 = 7 (Second plate of sushi)

    13 + 7 = 20

    Susan ate **20 sushi rolls** in total.

13. 24 + 32 + 19 + 25 = 100

    100 – 54 = 46

    Kevin scored **46 points**.

14. 12 000 km – 6212 km = 5788 km

    Jill's family could fly a further **5788 km** from their current location.

15. 11:00 am + 1 hr 40 mins = 12:40 pm

    12:40 pm + 30 mins = 1:10 pm

    2:00 pm – 1:10 pm = 50 mins

    The second half of the exam took **50 minutes**.

16. 8.2 L – 1.8 L – 2.4 L = 4 L

    4 L – 6 L = -2 L

    The car **will not** make it to the petrol station without running out of fuel.

17. 13 mins + 19 mins + 32 mins + 6 mins = 70 mins

8:00 am – 70 mins = 6: 50 am

Scott leaves home at **6:50 am**.

18. 678 – 46 = 632

678 + 632 = 1310

The book stand sold **1310 magazines** in these two months.

19. 36 + 10 = 46

88 – 46 = 42

There are **42 female elephants** in the herd.

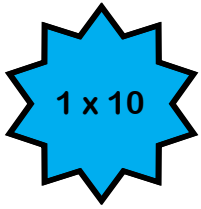20. 198 + 139 + 55 = 392

15 + 22 + 18 = 55

392 – 55 = 337

There were **337 pieces of fruit** available on Tuesday.

1 x Colour Fun!
Answer Sheet

1 x 10

3 x 1

1 x 11

1 x 4

1 x 1   1 x 1

1 x 5

8 x 1   5   1 x 8

4 x 1

1 x 7   7 x 1

10 x 1   1 x 10

1 x 2   1 x 6   1 x 12   6 x 1

11 x 1   1 x 11

1 x 5   5 x 1

1 x 4   4 x 1

1 x 9

3 x 1   1 x 5   1 x 7   1 x 8   9 x 1   3 x 1   1 x 10

1	white	5	yellow	9	pink
2	black	6	dark green	10	light blue
3	red	7	dark blue	11	light green
4	orange	8	purple	12	brown

1 x 9

1 x 6
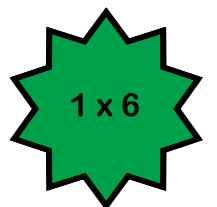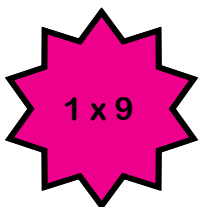
PANDORA'S PARTY PALACE

Lucy is buying some sweet treats for a party. She needs at least 50 sweet treats, but she doesn't want more than 60.

What combinations of sweet treats could Lucy buy for the party?

List some possibilities.

Calculate the total cost of the sweet treats for Lucy's party.

Answers will vary – Teacher to check.

teachstarter

PANDORA'S PARTY PALACE

Taylor's class was having an end-of-year party. Taylor was asked to bring the drinks. His budget for the drinks was $20.

What combinations of drinks could Taylor buy for the class party?

List some possibilities.

Check that the drinks don't cost more than $20.

Answers will vary – Teacher to check.

teachstarter

PANDORA'S PARTY PALACE

Mario is planning a pizza party for his birthday. He needs 24 mini pizzas to feed his friends.

How many boxes of mini pizzas does Mario need to buy?

Calculate the total cost of the mini pizzas for Mario's birthday party.

Answer: 2 boxes, total cost $16

teachstarter

PANDORA'S PARTY PALACE

Amy's friends came over to her place for a movie night. Amy bought 3 packs of popcorn to share with her friends.

How many snack-size popcorn packets did Amy have at her movie night?

Calculate the total cost of 3 packs of popcorn.

Answer: 30 packets, total cost $16.50

teachstarter

PANDORA'S PARTY PALACE

Mrs Small bought some party decorations for a surprise party for her class.

Mrs Small bought:

• 5 packs of party hats
• 2 packs of balloons
• 3 packs of party poppers.

How much did Mrs Small spend on decorations for the party?

Answer: $20.40

PANDORA'S PARTY PALACE

Daniel and his family were going on a picnic with his cousins. Daniel's family was asked to bring the paper plates, cups and serviettes.

If 40 people were going to the picnic, how many packs of paper plates, cups and serviettes did Daniel's family have to buy?

Answer: 2 packs of paper plates, 2 packs of cups, 1 pack of serviettes

How much did Daniel's family spend on serving supplies?

Answer: total cost $12.50

PANDORA'S PARTY PALACE

Sam decided to buy sushi rolls and chicken nuggets for his birthday party. He wanted each guest to have 5 pieces of sushi and 5 chicken nuggets.

If Sam invited 10 guests, how many boxes of chicken nuggets and packs of sushi did he need to buy?

Answer: 3 boxes of nuggets, 3 packs of sushi

Calculate the total cost for Sam's party food.

Answer: total cost $72

PANDORA'S PARTY PALACE

As a special treat, Mr Wright wants to buy his class lollipops.

If there are 28 children in the class, calculate for Mr Wright:

• the total number of packs of lollipops
• the total cost of the lollipops.

Answer: 3 packs, total cost $7.50

teachstarter

PANDORA'S PARTY PALACE

Coach Carter needs enough bottles of water to give one to each player for the soccer gala day.

If 54 players are attending the soccer gala day, how many six packs of water should Coach Cater buy?

Answer: 54 bottles (9 six packs)

Calculate the total cost for the water.

Answer: $22.50

PANDORA'S PARTY PALACE

Class 4A were held a cake stall to raise money for some new play equipment. They bought 12 boxes of cupcakes from Pandora's Party Palace and sold each cupcake at the stall for $1.

Calculate:
• the total cost of the cupcakes
• the total money received once all the cupcakes sold.

Answer: total cost $42, money received $120

PANDORA'S PARTY PALACE

Naomi wants to decorate her house with bunting to welcome her grandparents back from an overseas trip.

Naomi needs 12 m of bunting to decorate the house.

Calculate how many packs of bunting Naomi will need, and the total cost.

Answer: 4 packs, total cost $9.60

PANDORA'S PARTY PALACE

As part of their end-of-school year celebration, Principal Jones bought yoghurt ice blocks for every child in the school.

If there are 250 students in the school, how many boxes of ice blocks did Principal Jones buy?

Calculate the total cost for the ice blocks.

Answer: 25 boxes, total cost $150

PANDORA'S PARTY PALACE

For a science experiment, Professor Paleo needed 180 balloons and 360 paper cups.

Calculate for the experiment:

- the total packs of balloons
- the total packs of paper cups
- the total cost for the balloons and cups.

Answer: 9 packs of balloons, 15 packs of cups, total cost $70.20

PANDORA'S PARTY PALACE

On the weekend, Jenny had a party for her 10th birthday. Calculate the total cost for the party if Jenny bought:

- 4 packs of balloons
- 3 packs of streamers
- 2 packs of bunting
- 3 boxes of cupcakes
- 6 boxes of mini pizzas
- 3 packs of potato chips
- 10 bottles of lemonade.

Answer: total cost $103.50

PANDORA'S PARTY PALACE

To help celebrate New Year's Eve, Lilly bought some decorations from Pandora's Party Palace. Her budget for decorations was $50.

What combinations of decoration could Lucy buy for New Year's Eve?

List some possibilities, and then calculate the total cost Lilly spent on decorations.

Answers will vary – Teacher to check.

PANDORA'S PARTY PALACE

You have been given a budget of $100 to organise your own party, using items from Pandora's Party Palace.

After deciding how many guests you will invite, make a list of the items you will buy and their total costs.

Calculate the total cost of the party to check that you have come in under budget.

Answers will vary – Teacher to check.