Answers - Pictograms, tally charts and block diagrams

Year: Year 2

Answer to Question 1

a. The apple tally is one group of 5 and 4 more lines: 5, 6, 7, 8, 9. **9 children**.
b. Oranges, with 4. **Orange**.
c. 9 − 6 = **3** more.
d. 9 + 6 + 4 + 7 = 15 + 11 = **26 children**.

Answer to Question 2

a. 11 is two groups of five and one more: 
b. 14 is two groups of five and four more: 
c. 11 + 8 + 14 + 6 = 19 + 20 = **39 cars**.

Answer to Question 3

a. Football has 7 stars: 7 × 2 = **14 children**.
b. Hopscotch has 3 stars: 3 × 2 = **6 children**.
c. The most stars is football, so **football**.
d. 14 − 4 = **10 more**.

Answer to Question 4

a. Ben's bar reaches 10: **10 books**.
b. Cal's bar is the lowest at 4: **Cal**.
c. 10 − 4 = **6 more**.
d. 7 + 10 + 4 + 8 = 17 + 12 = **29 books**.

Answer to Question 5

a. 8 ÷ 2 = **4 stars**.
b. Car 6 ÷ 2 = **3 stars**, bus 4 ÷ 2 = **2 stars**, bike 2 ÷ 2 = **1 star**.
c. 8 + 6 + 4 + 2 = **20 children**.

Walk	★★★★
Car	★★★
Bus	★★
Bike	★

Answer to Question 6

a. The highest temperature is 17 °C: **Tuesday**.
b. The most rain is 8 mm: **Wednesday**.
c. 17 − 12 = **5 degrees** warmer.
d. Above 14 means more than 14: **Tuesday (17) and Thursday (15)**.

Answer to Question 7

a. 12 + 9 + 15 + 6 = 21 + 21 = **42 children**.
b. The most votes are the climbing frame (15) and the slide (12), so **the climbing frame and the slide**.
c. 15 − 6 = **9 more**.
d. 9 ÷ 3 = **3 stars**.

Answer to Question 8

a. Green has 5 pictures: 5 × 5 = **25 medals**.
b. Blue has 3 pictures: 3 × 5 = **15 medals**.
c. Yellow has 2 pictures, so **Yellow** won the fewest (10 medals).
d. 20 + 15 + 25 + 10 = **70 medals**.

Answer to Question 9

a. The apple bar reaches 12 on the scale, which goes up in 2s: **12 kg**.
b. The plum bar is the shortest, so **plums** sold the least (4 kg).
c. 10 − 4 = **6 kg**.
d. 12 + 8 + 4 + 10 = **34 kg**.

Answer to Question 10

a. 5 + 8 + 4 + 6 = **23 children**. (That is 24 − 1.)
b. **Summer** has the most birthdays (8).
c. 5 + 8 = **13 children**.
d. 8 ÷ 2 = **4 stars**.

Answer to Question 11

a. 5 pictures × 2 = **10 cats**.
b. 6 pictures × 2 = **12 fish**.
c. 12 − 4 = **8 more**.
d. 8 + 10 + 4 + 12 = **34 pets**. The total is correct.

Answer to Question 12

a. 15 + 20 + 25 = **60 minutes**.
b. Asha 60, Ben 45, Cal 50, Dee 60. Asha and Dee tie with **60 minutes**.
c. Asha: 60. Dee: 5 + 25 + 30 = 60. **Asha and Dee** reached 60 minutes.
d. 60 − 45 = **15 minutes** short.

Answer to Question 13

a. 16 is 3 groups of five and 1 more: 5, 10, 15, 16. **16 ice creams**.
b. Mint, with 5. **Mint**.
c. 16 − 11 = **5 more**.
d. 16 + 11 + 14 + 5 = 27 + 19 = **46 ice creams**.

Answer to Question 14

a. 7 is one group of five and 2 more: 5, 6, 7. **7 children**.
b. Ludo has the most, with 10 children. **Ludo**.
c. 10 − 4 = **6 more**.
d. 9 + 7 + 4 + 10 = **30 children**.

Answer to Question 15

a. The zoo bar reaches 10: **10 children**.
b. Zoo (10), farm (7) and beach (6) are more than 5.
c. 10 + 7 + 3 + 6 + 4 = **30 children**. Yes, it matches.
d. 10 − 4 = **6 more**.
e. Zoo and farm: 10 + 7 = 17. 17 is more than 15, so **yes**, she is right.

Answer to Question 16

a. 6 is one group of five and one more: **6 days**.
b. 6 + 5 + 3 = **14 days**. That is 2 weeks.

c. Sunny 6 ÷ 2 = **3 symbols**. Cloudy 5 ÷ 2 = **2 and a half symbols**. Rainy 3 ÷ 2 = **1 and a half symbols**.
d. 6 − 3 = **3 more days**.
e. Rainy is the least common weather. Its tally is the shortest, with only 3 marks.

Sunny ★★★
Cloudy ★★◖
Rainy ★◖

Answer to Question 17

a. 12 + 3 + 2 = **17 vehicles**.
b. Tuesday: 15 + 4 + 1 = **20**. Wednesday: 10 + 5 + 3 = **18**. Thursday: 13 + 2 + 2 = **17**.
c. Tuesday has the highest total, 20, so **Tuesday** was the busiest.
d. 3 + 4 + 5 + 2 = **14 vans**.
e. 15 − 1 = **14 more** small cars than buses.

Answer to Question 18

a. The pizza bar reaches 15 on the scale: **15 children**.
b. 10 + 10 = **20 children**.
c. 15 + 10 + 5 + 10 = **40 children**. Yes, it matches.
d. **Pizza** won with 15 votes. 15 − 5 = **10 more** than fish.
e. Double the fish votes is 2 × 5 = 10, and pizza already has 15, which is more than double. **No children** need to change.

Answer to Question 19

a. Ali 4 × 10 = **40**, Bea 3 × 10 = **30**, Cy 5 × 10 = **50**, Di 2 × 10 = **20**.
b. 40 + 30 + 50 + 20 = **140 stickers**.
c. 140 ÷ 4 = **35 stickers** each.
d. 50 − 35 = **15 stickers**.
e. 35 − 20 = **15 stickers**.

Answer to Question 20

a. Cats and fish together have 24 − 10 = 14 votes. If cats have 4 more than fish, fish + fish + 4 = 14, so fish + fish = 10 and fish = 5. Cats = 9. **Cats 9 and fish 5**. Check: 10 + 9 + 5 = 24.
b. First row: 6 × 4 = 24 children. Half is 12. 12 ÷ 4 = **3 stars**.
c. Halfway between 6 and 8 is **7**.

d. Yes, the longest tally has the most marks, so it shows the item with the most votes. **She is right**, provided the tally is counted correctly.