Year 3 maths: Checking claims about data (Hard)

Maths · Data
Level: Hard

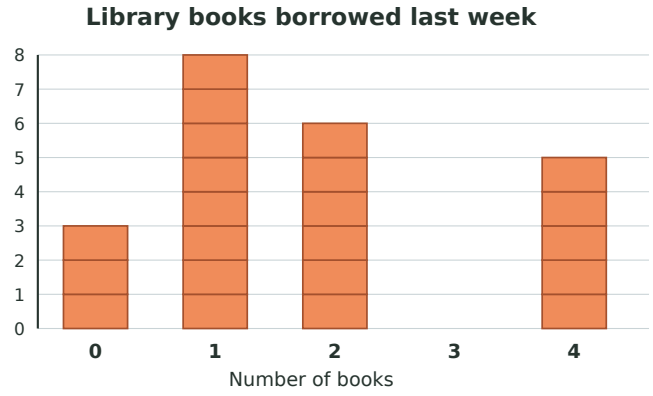
Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. Later, 2 children who were away said they each borrowed 3 books. Now how many children borrowed 3 books or more?

Answer: ☐ children



Working:

2. The class wanted to sell 120 raffle tickets. How many more tickets do they need to sell?

Answer: ☐ tickets

Raffle tickets sold

Ana	★★★★★★
Ben	★★★
Cara	★★★★
Dev	★★★★★★★

Each picture means 5

Working:

3. Look at the votes for class captain. Claim 1: Mei got more votes than Priya and Lachlan together. Claim 2: Hamish got 2 more votes than Mei. Claim 3: If 3 children who were away had all voted for Priya, Priya would have won. Which claims are correct?

Circle one answer.

Name	Votes
Hamish	𝍸 𝍸 ||||
Priya	𝍸 ||||
Lachlan	𝍸 ||
Mei	𝍸 𝍸 ||

○ **A** Claim 1 only

○ **B** Claim 2 only

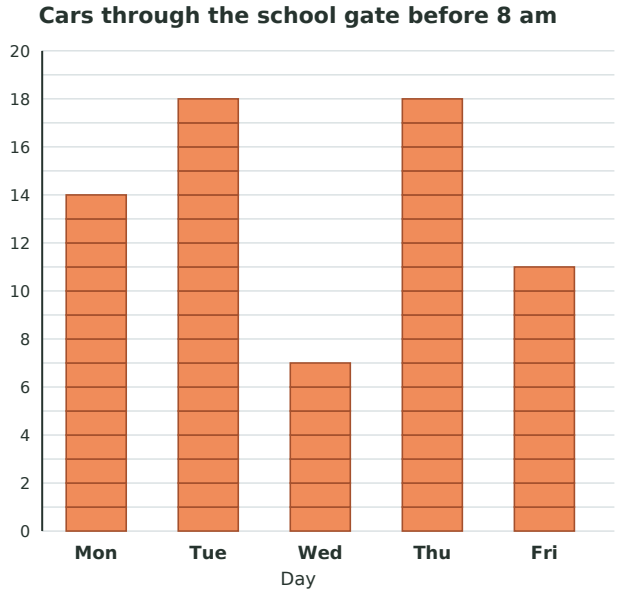
○ **C** Claims 1 and 2 only

○ **D** Claims 2 and 3 only

○ **E** None of the claims

4. How many cars came altogether on the days with more than 12 cars?

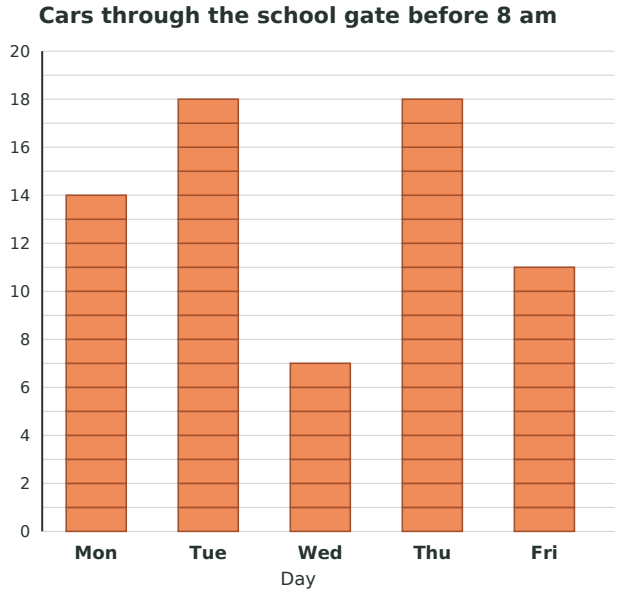
Answer: ☐ cars



Working:

5. Which claim about the cars graph is NOT true?

Circle one answer.



○ **A** Tuesday had 4 more cars than Monday.

○ **B** Thursday had twice as many cars as Wednesday.

○ **C** Monday and Wednesday together had more cars than Tuesday.

○ **D** Four days had more than 10 cars.

○ **E** Friday had 4 more cars than Wednesday.

6. Look at the fete table. Claim 1: The plant stall sold 3 times as many tickets on Saturday as on Friday. Claim 2: The book stall sold 27 tickets over the two days. Claim 3: On Friday, the toy stall sold more than the book and plant stalls together. Which claims are correct?

Circle one answer.

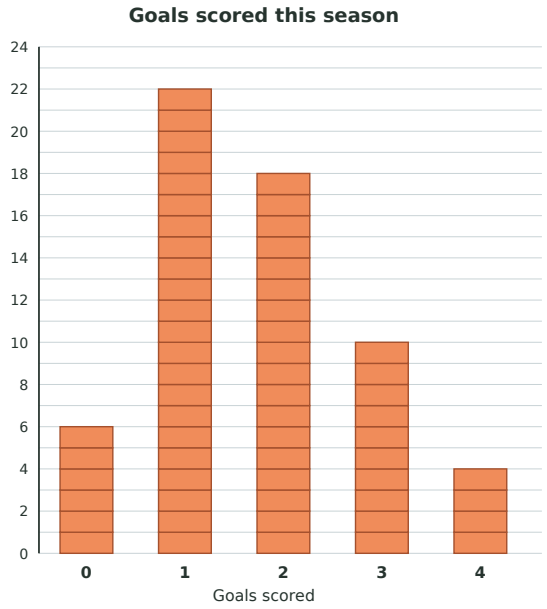
Stall	Friday	Saturday
Cakes	18	36
Books	12	15
Plants	9	27
Toys	20	10

○ **A** Claim 1 only
○ **B** Claim 2 only
○ **C** Claims 1 and 2 only
○ **D** Claims 1 and 3 only
○ **E** Claims 1, 2 and 3

---

7. Claim 1: Eight more children scored 1 goal than scored 3 goals. Claim 2: 32 children scored at least two goals. Claim 3: Twice as many children scored 3 goals as scored 4 goals. Which claims are correct?

Circle one answer.



○ **A** Claim 1 only
○ **B** Claim 2 only
○ **C** Claims 1 and 2 only
○ **D** Claims 2 and 3 only
○ **E** Claims 1, 2 and 3

---

8. Ahmed walks dogs on weekdays. The table shows his hours for two weeks. He forgot to write down Friday in Week 2. He walked dogs for the same number of hours in both weeks. How many hours did he walk on Friday in Week 2?

Circle one answer.

	Mon	Tue	Wed	Thu	Fri
Week 1	6	4	8	3	5
Week 2	5	7	2	6	?

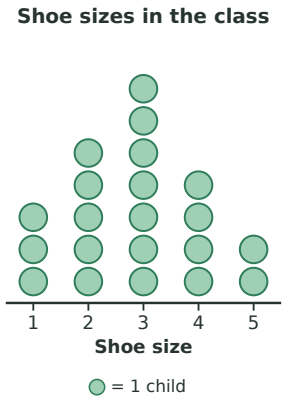
○ **A** 46 hours ○ **B** 6 hours ○ **C** 26 hours ○ **D** 5 hours

○ **E** 20 hours

---

9. The dot plot shows the shoe sizes of children in a class. Sienna makes three claims. 1: Fifteen children wear size 3 or bigger. 2: More children wear size 2 than size 4 and size 5 together. 3: The most common size is 3. Which of Sienna's claims are correct?

Circle one answer.



○ **A** Claim 1 only ○ **B** Claim 3 only

○ **C** Claims 1 and 3 only ○ **D** Claims 2 and 3 only

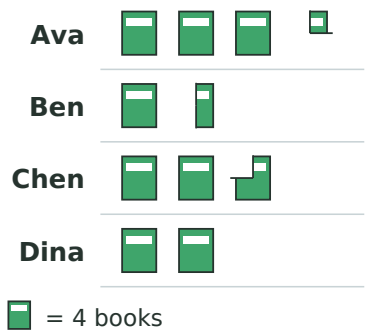
○ **E** None of the claims

---

10. The picture graph shows how many books four friends read in a month. How many more books did Ava read than Ben?

Circle one answer.

Books read in a month



○ **A** 2 ○ **B** 10 ○ **C** 13 ○ **D** 7 ○ **E** 8

Answer key

Year 3 maths: Checking claims about data (Hard) · Sheet 630785

1. 7 children

Before: 3 books 0 + 4 books 5 = 5. Add the 2 new children: 5 + 2 = 7.

2. 20 tickets

Sold: 30 + 15 + 20 + 35 = 100. 120 − 100 = 20.

3. B — Claim 2 only

1: 9 + 7 = 16, and Mei has 12, false. 2: 14 − 12 = 2, true. 3: 9 + 3 = 12, still less than Hamish's 14, false. Claim 2 only.

4. 50 cars

More than 12: Monday 14, Tuesday 18, Thursday 18. 14 + 18 + 18 = 50.

5. B — Thursday had twice as many cars as Wednesday.

Twice Wednesday's 7 is 14, but Thursday had 18, so that claim is not true. Check the others: 18 − 14 = 4, 11 − 7 = 4, 14 + 7 = 21 > 18, and Mon, Tue, Thu, Fri are all above 10.

6. C — Claims 1 and 2 only

1: 3 × 9 = 27, true. 2: 12 + 15 = 27, true. 3: books 12 + plants 9 = 21, more than toys' 20, false. Claims 1 and 2 only.

7. B — Claim 2 only

0 goals 6, 1 goal 22, 2 goals 18, 3 goals 10, 4 goals 4. 1: 22 − 10 = 12 more, not 8, false. 2: at least two is 2, 3 or 4: 18 + 10 + 4 = 32, true. 3: twice 4 is 8, not 10, false.

8. B — 6 hours

Week 1: 6 + 4 + 8 + 3 + 5 = 26 hours. Week 2 so far: 5 + 7 + 2 + 6 = 20 hours. 26 − 20 = 6 hours on Friday.

9. B — Claim 3 only

Dots: size 1 has 3, size 2 has 5, size 3 has 7, size 4 has 4, size 5 has 2. Claim 1: 7 + 4 + 2 = 13, not 15: false. Claim 2: size 2 is 5, sizes 4 and 5 are 4 + 2 = 6: false. Claim 3: size 3 has the most dots: true.

10. D — 7

Each book picture is 4 books. Ava: 3 and a quarter pictures = 12 + 1 = 13. Ben: 1 and a half = 4 + 2 = 6. 13 − 6 = 7.