

Year 7 Class 30 questions

Q1

Consider the following survey question:

Which is your favourite take away meal?

Fast food	Thai	Chinese	Indian
Pizza	other		

The type of data being collected is

→ Categorical (distinct) Categorical (ordered)

Q2

Consider the following survey question:

How many people live in your house?
_____ people

The type of data being collected is

→ Numerical (discrete)
Numerical (continuous)

Q3

Points per basketball game

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

What is the range?

43

Q4

Classroom size (square metres)

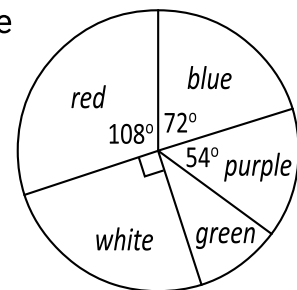
3	2	2	5	6	9	
4	0	0	4	4	4	5
5	2	5				

What is the range?

23

Q5

60 students were asked to choose their favourite shirt colour.



What fraction chose white?

$\frac{1}{4}$

What percentage chose blue?

%

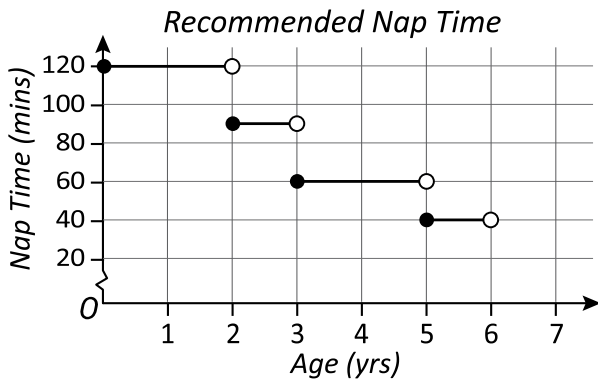
How many chose green?

6 20%

How many more students chose red than purple?

9

Q6



How long should a 5-year old nap for?

minutes **40**

How long should a 6-month old nap for?

minutes **120**

Tara is recommended taking a 1 hour nap.
What is the youngest age she could be?

years **3**

Q7

Consider the following survey question:

What size drink do you normally buy?

Small

Medium

Large

The type of data being collected is

Categorical (distinct) Categorical (ordered)

Numerical (discrete) Numerical (continuous)

Q8

Consider the following survey question:

What is your hair colour?

The type of data being collected is

Numerical (discrete) Categorical (ordered)

Categorical (distinct) Numerical (continuous)

Q9

Consider the following survey question:

How many students are in your class?

The type of data being collected is

Numerical (discrete) Categorical (ordered)

Categorical (distinct) Numerical (continuous)

Q10

Trivia night results

5	0 2 4 4
6	3 3 7 8 8 8
7	2 5 6
8	4 4 7 8

What is the median result?

68

Q11

Trivia night results

5	0 2 4 4
6	3 3 7 8 8 8
7	2 5 6
8	4 4 7 8

What is the mean result?

69

Q12

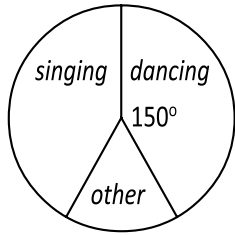
Classroom size (square metres)

3	2 2 5 6 9
4	0 0 4 4 4 5
5	2 5

What is the median classroom size?

m² **40m²**

Q13

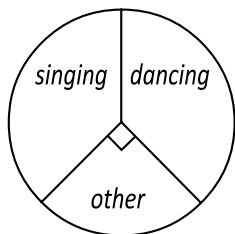


156 people entered a talent quest. The number of dancers and the number of singers were equal.

How many singers were there? 65

Find the number of people who entered in the 'other' category. 26

Q14

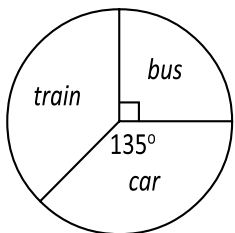


128 people entered a talent quest. The number of dancers and the number of singers were equal.

How many dancers were there? 48

Find the number of people who entered in the 'other' category. 32

Q15



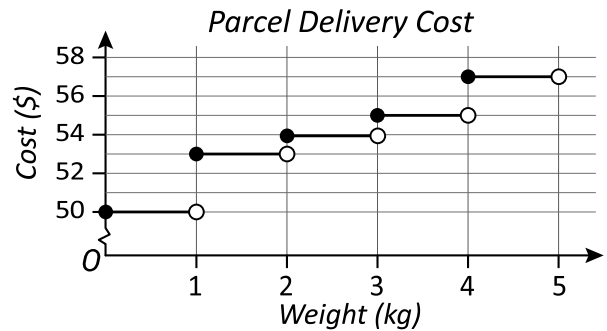
Mrs Simpson asked her students how they came to school this morning.

What percentage caught the bus? % 25%

If 8 students caught the bus, how many students are in the class? 32

How many travelled by train? 12

Q16

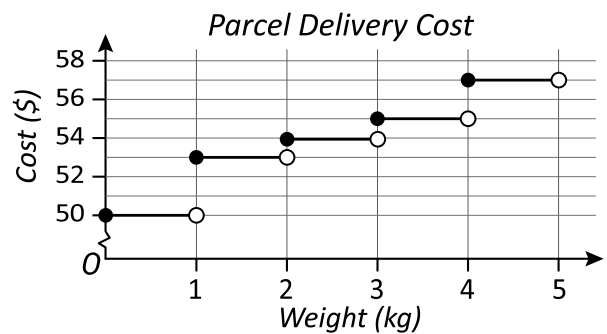


How much does it cost to send a package weighing 720g? \$ \$50

How much does it cost to send a package weighing 1 kg? \$ \$53

Ben wants to send 2 items weighing 1.5 kg and 2.75 kg. How much will he save if he packs them together instead of sending them separately?
\$ \$50

Q17

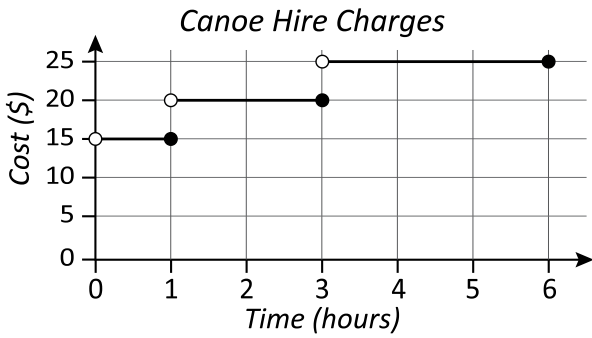


How much does it cost to send a package weighing 250g? \$ \$50

How much does it cost to send a package weighing 3 kg? \$ \$55

Beth wants to send 2 items weighing 800g and 2.4kg. How much will she save if she packs them together instead of sending them separately?
\$ \$49

Q18



How much does it cost to hire a canoe for 35 minutes? \$ **\$15**

How much will it cost to hire a canoe from 8 am until 10 am, then rehire it from 12:30 pm until 1 pm? \$

How much would it cost to take the canoe at 8 am and return it at 1 pm? \$ **\$35**
\$25

Q19

What type of data is displayed in this graph?

Name	Result
Blake	48%
Jones	72%
Maguine	84%
Kim	65%
Harison	70%
Yee	80%

Categorical (distinct)

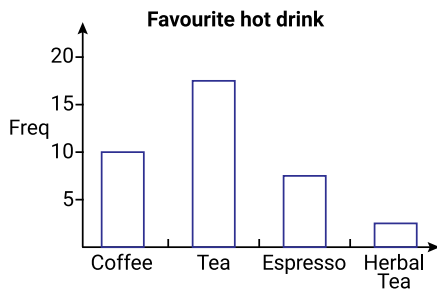
Categorical (ordered)

→ Numerical (discrete)

Numerical (continuous)

Q20

What type of data is displayed in this graph?

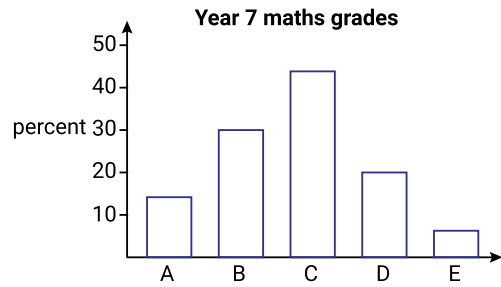


→ Categorical (distinct) Categorical (ordered)

Numerical (discrete) Numerical (continuous)

Q21

What type of data is displayed in this graph?



Categorical (distinct) **→** Categorical (ordered)

Numerical (discrete) Numerical (continuous)

Q22

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

Find the mean. (Answer to one decimal place)

67.1

Find the mode.

64 64 and 71 71 71 and 78

Find the range. **33**

Find the median. **67.5**

Q23

8	0 0 1
9	0 2 2 3 3 8
10	0 4 4 6 6 8 9 9 9
11	1 2 2 4

Find the mean. (Answer to one decimal place)

100.1

Find the mode.

112 109 82 and 83 106 and 109

Find the range. **34**

Find the median. **104**

Q24

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

Find the mean. (Answer to one decimal place)

42.9

Find the mode.

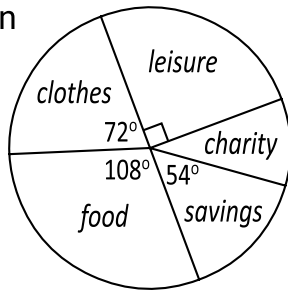
45 36 and 45 36 and 48 55

Find the range. 48

Find the median. 45

Q25

Leanne earned \$800 in July. The pie graph shows how the money was used.



What fraction was used for clothes? $\frac{1}{5}$

How much was spent on food?

\$ \$240

What percentage was used for leisure?

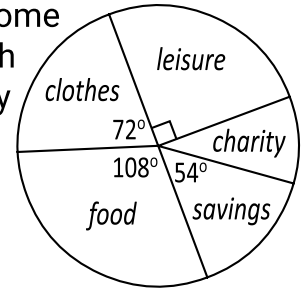
% 25%

How much more was spent on clothes

than was saved? \$ \$40

Q26

Last month Jon's income was \$1000. The graph shows how the money was used.



What fraction was saved? $\frac{3}{20}$

How much was spent on clothes?

\$ \$200

What percentage was used for food?

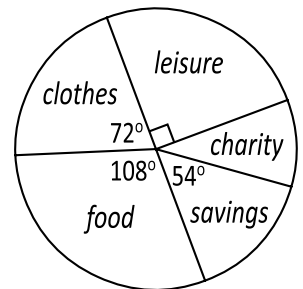
% 30%

How much more was spent on food

than on leisure? \$ \$50

Q27

Glenn earned \$1500 in June. The graph shows how the money was used.



What fraction was given to charity? $\frac{1}{10}$

How much was spent on leisure?

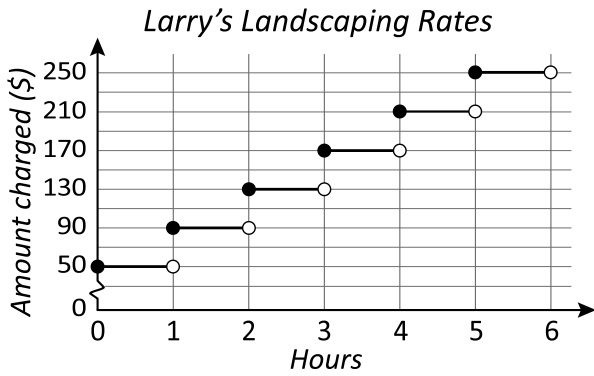
\$ \$375

What percentage was saved? %

How much more was spent on food

than on clothes? \$ \$150

Q28

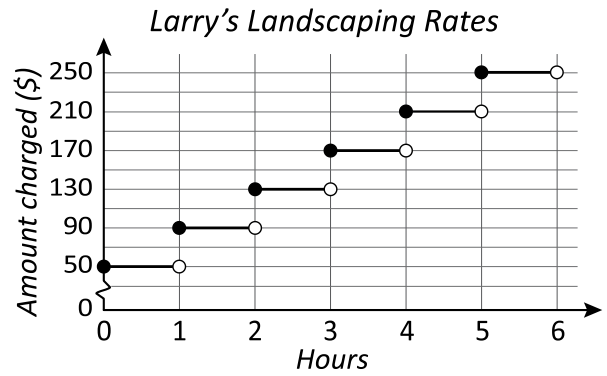


How much does Larry charge for working 3.5 hours? \$ \$170

Larry charged \$210 for some work. What is the shortest time he could have worked for? hours 4

Larry's first job started at 9 am and he finished it at 2.45 pm. He completed another job late afternoon which took him 1 hour 35 mins. How much did he get paid in total? \$ \$340

Q29

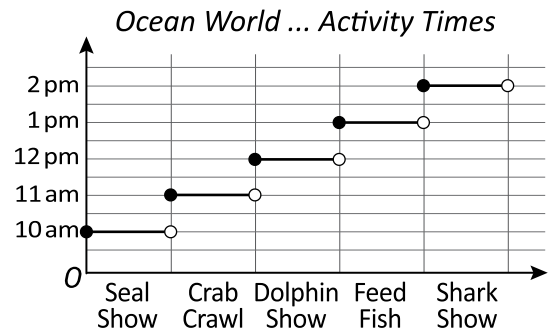


How much does Larry charge for working 2.5 hours? \$ \$130

Larry charged \$170 for some work. What is the shortest time he could have worked for? hours 3

Larry's first job starts at 9 am and he finishes at 12.15 pm. He completes another job after lunch which takes him 1 hour 40 mins. How much does he get paid in total? \$ \$260

Q30



Which show was on at 1:30 pm?
 Seal Show Dolphin Show
 Crab Crawl Feed Fish

Max arrived at 1:45 pm. What is the only full show he can watch?
 Seal Show Dolphin Show
 Shark Show Feed Fish

Jen arrived 10 mins before the start of the Crab Crawl. When did she arrive?
 11:10 12:50 10:50 12:10