

Varied Fluency

Step 3: Tables

National Curriculum Objectives:

Mathematics Year 3: (3S1) [Interpret and present data using bar charts, pictograms and tables](#)

Mathematics Year 3: (3S2) [Solve one-step and two-step questions \[for example, 'How many more?' and 'How many fewer?'\] using information presented in scaled bar charts and pictograms and tables](#)

Differentiation:

Developing Questions to support interpreting tables with up to two headings. Includes one-step problems.

Expected Questions to support interpreting tables with multiple headings. Includes one and two-step problems.

Greater Depth Questions to support interpreting tables with multiple headings and multi-step problems. Some data is omitted from tables.

More [Year 3 Statistics](#) resources.

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Tables

1a. Use the table to answer the questions about pizza toppings.

A. Which pizza can Mum and Dad share?

B. Which pizzas does Dad dislike?

C. How many pizzas does Mum like?

D. Which parent dislikes eating chicken on a pizza?

	Mum	Dad
Chicken	✓	
Sausage	✓	
Spinach	✓	✓
Pepperoni	✓	



VF

2a. The table below shows the number of cars using a car park.

	Morning	Afternoon
Monday	15	14
Tuesday	11	4
Wednesday	9	15
Thursday	12	17
Friday	6	12

A. Which morning had the least amount of cars?

B. On which afternoon were there less than 10 cars parked?

C. On which afternoon did the car park have more than 16 cars parked?

D. On which day did the car park have an odd amount of cars in the morning and afternoon?



VF

3a. The table shows the results of a pet survey in Class B.

Pet	Children in Class B
Dog	5
Rabbit	2
Hamster	4
Fish	8
Cat	12

A. Which pet is owned by the most children in Class B?

B. Which pet is owned by an odd number of children in Class B?

C. How many children own fish in Class B?

D. Order the pets from the pet with the least owners to the pet with the most owners.



VF

Tables

1b. Use the table to answer the questions about snacks.

A. Which snacks does Malorie like?

B. Which snack doesn't Justin like?

C. Who likes eating yoghurt?

D. Which snack can be eaten by both Justin and Malorie?

	Justin	Malorie
Yoghurt	✓	
Popcorn	✓	✓
Crackers	✓	
Apples		✓



VF

2b. The table below shows some children's favourite hobbies.

	Morning	Afternoon
Cinema	18	15
Gardening	6	4
Swimming	11	3
Reading	10	27
Shopping	9	1

A. Which hobby had less than eight votes in the morning?

B. Which hobby received the most votes in the afternoon?

C. Which hobby was chosen once in the afternoon?

D. Which hobby was chosen three times in the afternoon?



VF

3b. The table shows how many colours of watches are left in a jewellery shop.

Colour	Number of watches
Green	7
Blue	2
Red	4
Yellow	8
Purple	12

A. Which colour has the least amount of watches left?

B. Which colour has an odd amount of watches left?

C. How many yellow watches are left in the shop?

D. Order the watches from the colour with the most watches left to the colour with the least.



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Tables

4a. Use the table to answer the questions about film viewings during one week.

A. Which films were watched an equal number of times?

B. On which two days were the most films watched?

C. Which film wasn't watched on one day of the week only?

D. Which film wasn't watched on either Monday or Friday?

	M	Tu	W	Th	Fr	Sa	Su
Mary Podkins	✓		✓			✓	
Larry Potter	✓	✓	✓	✓		✓	✓
Tiger Queen	✓			✓			✓
Planet Fights			✓	✓	✓	✓	✓
How Despicable!		✓	✓			✓	



VF

5a. The table below shows children's favourite ice cream flavours.

	Bubblegum	Vanilla	Chocolate	Cookie dough	Salted caramel
Boys	9	13	4	11	15
Girls	12	8	11	8	4

A. Which flavour of ice cream did boys vote for the most?

B. Did more boys or girls choose cookie dough as their favourite flavour?

C. How many children chose vanilla and salted caramel in total?

D. How many more boys took part in the survey than girls?



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6a. The table below shows how many cars were sold at three garages in one month.

	Red	Blue	Black	Silver	White
Ardi	8	3	10	5	2
GMW	1	5	9	3	0
Flat	3	6	2	12	13

A. How many black cars were sold altogether?

B. Which colour had the least amount of sales at the GMW garage?

C. How many cars were sold at the Ardi garage and the Flat garage in total?

D. Which car garage had between 20 and 30 sales in total?



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Tables

4b. Use the table to answer the questions about types of music each teacher likes.

A. Which type of music is enjoyed by all four teachers?

B. Which type of music do Mr Bowles and Mr Kennedy both like?

C. Which teacher likes the least types of music?

D. Who likes dance and opera but dislikes rock and country music?

	Mr Bowles	Miss Hardaker	Mr Kennedy	Mrs Salinger
Opera		✓	✓	
Reggae	✓	✓		
Classical			✓	
Rock			✓	✓
Country	✓		✓	
Rap	✓	✓	✓	✓
Dance		✓	✓	



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5b. The table below shows the number of visitors to different shops over a weekend.

	Gift shop	Pet shop	Card shop	Clothes shop	Flower shop	Corner shop
Saturday	7	9	12	8	7	15
Sunday	15	7	18	13	11	8

A. Which shop had the least amount of visitors on Sunday?

B. Which shop had the most amount of customers over the whole weekend?





C. How many visitors did all the shops beginning with the letter 'C' have in total, on Sunday?

D. Which shops had more visitors than the flower shop but less than the corner shop over the two days?



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6b. The table below shows the results of a traffic survey.

				
Main Street	17	4	8	3
Side Street	7	1	0	9
High Street	6	13	2	2

A. How many cars were there altogether?

B. Which was the least common type of transport on Main Street?

C. How many more buses than lorries were there on High Street?

D. What's the difference between the street with the most amount of traffic and the street with the least amount of traffic?



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Tables

7a. Use the table to answer the questions about jobs at Stomach Sensations Ltd.





- A. Which job is done by sixteen more men than women?
- B. Which job is done by an even amount of women altogether?
- C. Which two jobs have equal numbers of male and female workers?
- D. Which job has the 2nd largest amount of people in total?

	Men (under 30)	Women (under 30)	Men (30+)	Women (30+)	Men temp workers	Women temp workers	Total
Managers	2	3	6	7	0	0	15
Drivers	10	0	11	7	2	0	30
Kitchen staff	8	5	3	10	4	8	38
Counter staff	4	4	4	2	0	1	19
Cleaners	3	4	2	2	9	8	28



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8a. The table below shows the colours of dogs' coats.



	White	Black	Golden	Ruby	Brown	Fawn	Total
Golden Retriever	12		7	0	4	0	26
Labrador	0	13	8	0	19	12	
Cocker Spaniel	11	9	13		16	0	55
Poodle	18	9	10	11		0	58

- A. How many dogs were surveyed altogether?
- B. What is the difference between the most popular colour of dog coat and the least?
- C. Which breed surveyed in total isn't a multiple of two?
- D. Which two colours, when combined, make an even number with a digit sum of 5?



VF

9a. The table shows the choice of subjects and their popularity.

	French	RE	Drama	Art	German	Music	History	Total
Boys	20	28	31	30	19	46	47	
Girls	46	36		39	18	33	44	228

- A. How many pupils chose to study languages in total?
- B. How many more girls were surveyed than boys altogether?
- C. How many more pupils chose History than Drama and German combined?
- D. Which subjects were more popular than Drama but less popular than Art?







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Tables

7b. Use the table to answer the questions about travelling to school.



- A. Which year group surveyed the most pupils in total?
- B. How many Year 6 pupils travel to school using an engine?
- C. Which way of travelling has the second largest number of votes across Key Stage 2?
- D. Which year group uses an odd number of vehicles with four wheels to get to school?

	Year 3		Year 4		Year 5		Year 6		Total
Walk	7	11		16	10	12	19	17	101
Car	22	13	12	8	9	13	5	7	
Bus	3	4	10	1	5	0	2	0	25
Bicycle	0	0	1	0		1	7	6	18
Taxi	2	4	0	5	5	4	0	1	



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8b. The table below shows the types of fish caught by five fishermen in a week.



	Swordfish	Cod	Salmon	Prawns	Haddock	Tuna	Total
Sage	1	3	8	9	24	13	58
Nate	9	15	17	2	13	28	84
Jonah	19	12		7	6	15	80
Zane	4	23	0	11	27	6	
Magnus	0	9	7	2	9	10	37

- A. Which fisherman caught less fish than Zane altogether but more than Magnus?
- B. Which type of fish was caught the most often?
- C. Which fisherman caught three times as many salmon as Magnus?
- D. What is the difference between the most type of fish caught and the least type of fish caught?



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9b. The table shows the average heights and weights of some baby zoo animals.

	Meerkat	Lion	Tiger	Giraffe	Gorilla	Elephant	Monkey	Total
Height (cm)	45	58	80	185		91	117	698
Weight (kg)	1		2	68	12	92	1	200

- A. Which animal is more than twice as tall as a lion but shorter than a gorilla?
- B. Is the heaviest animal also the tallest?
- C. Which animals are both lighter than 10kg but taller than 65cm?
- D. Which animal has the greatest difference between its height and weight?



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Varied Fluency Tables

Developing

- 1a. A. Spinach; B. Chicken, sausage and pepperoni; C. 4; D. Dad
2a. A. Friday morning; B. Tuesday afternoon; C. Thursday afternoon; D. Wednesday
3a. A. Cat; B. Dog; C. 8; D. Rabbit, hamster, dog, fish, cat.

Expected

- 4a. A. Mary Podkins, Tiger Queen and How Despicable! were all watched three times; B. Wednesday and Saturday; C. Larry Potter; D. How Despicable!
5a. A. Salted caramel; B. Boys; C. 40; D. 9 more boys
6a. A. 21; B. White; C. 64; D. Ardi

Greater Depth

- 7a. A. Drivers; B. Managers; C. Cleaners (14 workers each); D. Drivers
8a. A. 191; B. $49 - 12 = 37$; C. Cocker spaniel; D. golden (38) + fawn (12) makes 50.
9a. A. 103; B. 7; C. 11; D. French and RE

Varied Fluency Tables

Developing

- 1b. A. Popcorn and apples; B. Apples; C. Justin; D. Popcorn
2b. A. Gardening; B. Reading; C. Shopping; D. Swimming
3b. A. Blue; B. Green; C. 8; D. Purple, yellow, green, red, blue

Expected

- 4b. A. Rap; B. Country; C. Mrs Salinger; D. Miss Hardaker
5b. A. Pet shop; B. Card shop; C. 39 visitors; D. Gift shop and clothes shop
6b. A. 30; B. Scooter; C. 11; D. 15

Greater Depth

- 7b. A. Year 3; B. 15; C. Car; D. Year 6 (15 vehicles with four wheels)
8b. A. Sage; B. Haddock; C. Jonah; D. 48
9b. A. Monkey; B. No, the elephant is not the tallest animal; C. Tiger and monkey; D. Giraffe