

YEAR 2

Statistics

- Draw pictograms (2, 5, 10)
- Interpret pictograms (2, 5, 10)
- Block diagrams



PrimaryStars
EDUCATION

Block 2 – Week 6

Monday

Short


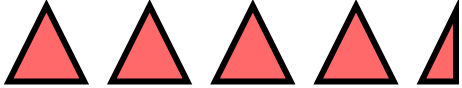

Lesson 1

Step: Draw Pictograms

(Practical)

Choose an appropriate key and complete the pictogram.

Vegetable	Number
Carrot	10
Potato	9
Cabbage	20

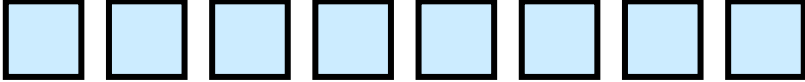

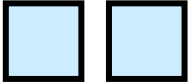
Vegetable	
Carrot	
Potato	
Cabbage	

KEY:  = 2

2 would be an appropriate key as it would require less counting than using a key of 1.

Choose an appropriate key and complete the pictogram.

Weather	Number
Rain	80
Sun	50
Snow	20


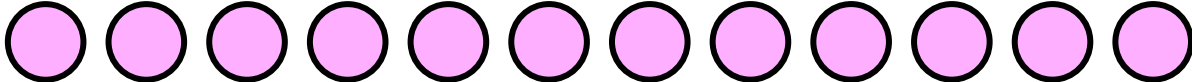

Weather	
Rain	
Sun	
Snow	

KEY:  = 10

10 would be an appropriate key as the numbers are larger.

Choose an appropriate key and complete the pictogram.

Fruit	Number
Grapes	45
Apple	60
Banana	25

Fruit	
Grapes	
Apple	
Banana	

KEY:  = 5

5 would be an appropriate key as the numbers end in 0 and 5.



The best key to use for a pictogram is 5.

Clothes	Number
Jeans	10
Jumper	9
Shirt	20

True or false?

False. 9 is not divisible by 5.

We also cannot use a half symbol to represent it.



What is the best key to use?

The best key to use would be 2.

Create a pictogram to show this.

Which key has been used on the pictogram below?
Explain how you know.

Perfume	Tally
Lily	
Rose	
Vanilla	

Perfume	
Lily	
Rose	
Vanilla	

KEY:  = 2

Complete the pictogram using the key to help you.

Food	Tally
Pizza	/
Chips	/ / /
Salad	/

Food	
Pizza	▲ ▲ ▲ ▲
Chips	▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲
Salad	▲ ▲ ▲

KEY: ▲ = 2

Wednesday

Short

Lesson 2

Step: Draw Pictograms (2, 5, 10)

Complete the pictogram using the key to help you.

Hair colour	Tally
Black	
Brown	
Ginger	
Blonde	

Hair colour	
Black	● ● ● ●
Brown	● ● ● ● ● ●
Ginger	●
Blonde	● ● ● ● ●

KEY: ● = 5

Complete the pictogram using the key to help you.

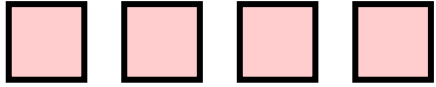
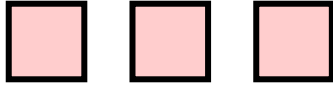
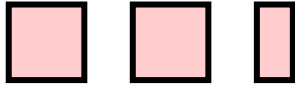
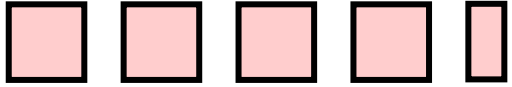
Fruit	Tally
Apple	
Banana	
Orange	
Grapes	
Pear	

Fruit	
Apple	● ● ● ● ● ● ● ●
Banana	● ●
Orange	● ● ● ●
Grapes	● ● ● ● ● ● ● ●
Pear	● ● ●

KEY: ● = 5

Complete the pictogram using the key to help you.

Animal	Tally
Cow	
Pig	
Horse	
Chicken	

Animal	
Cow	
Pig	
Horse	
Chicken	

KEY:  = 10

Spot the mistake and explain your answer.

KEY:  = 5

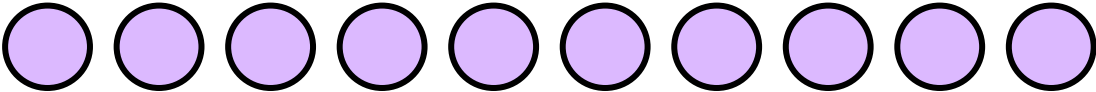
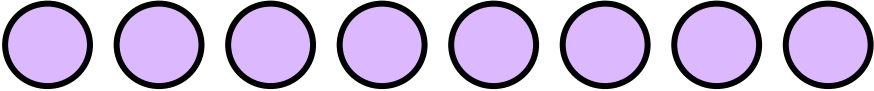
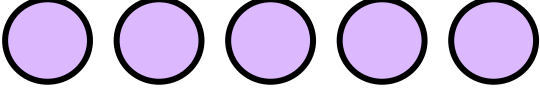
Colour	Tally
Red	
Blue	
Green	
Pink	

Colour		Total
Red		25
Blue		30
Green		15
Pink		4

The total of pink should be 20 as the key shows each triangle is worth 5. ($4 \times 5 = 20$).

Use the clues to complete the pictogram.

KEY:  = 10

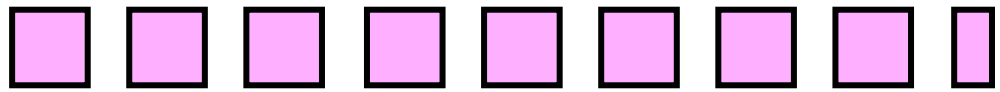
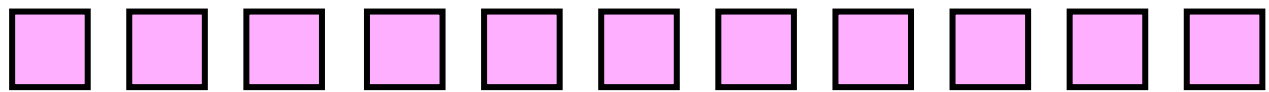
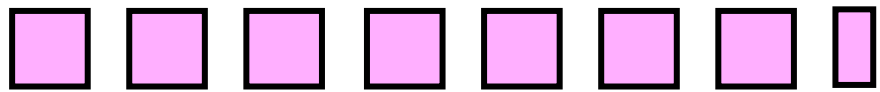
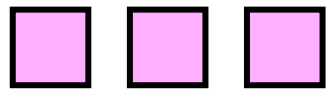
Colour		Total
Blue		100
Red		80
Green		50



There are double the amount of blue than green.



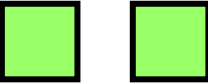
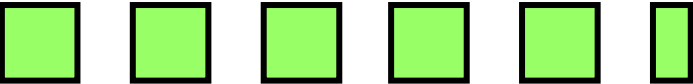


There are 20 less red than blue.

Hair colour	
Black	
Brown	
Blonde	
Ginger	

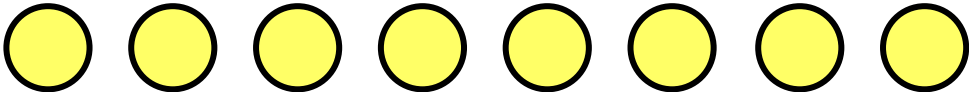


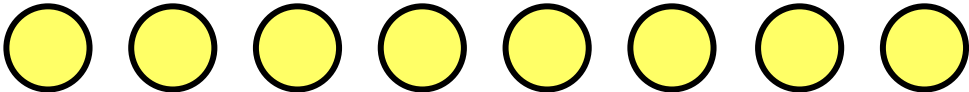
KEY:  = 2

- a) How many people have blonde hair? 15
- b) Find the difference between people with ginger hair and black. 11
- c) How many more people with brown hair than black? 5

Animals	
Lion	
Elephant	
Giraffe	
Rhino	

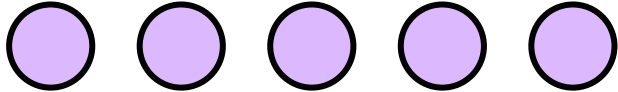
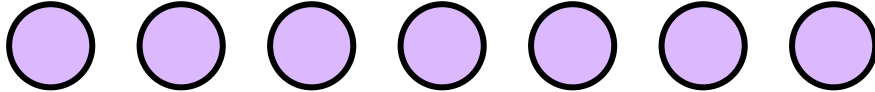
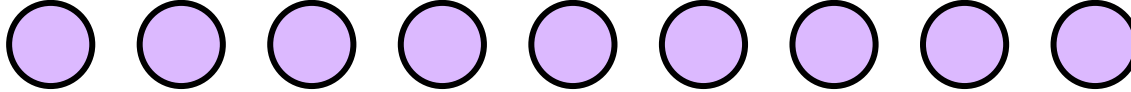

KEY:  = 2


- a) What is the total number of lions? 14
- b) Find the difference between the giraffes and elephants. 13
- c) How many fewer rhinos than lions? 3

Fruit	
Apple	
Banana	
Orange	
Grapes	





KEY:  = 5

- a) What is the total number of grapes? 40
- b) Find the difference between the bananas and apples. 25
- c) How many more grapes than oranges? 15

Animal	
Cow	
Pig	
Horse	
Chicken	




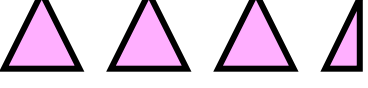
KEY:  = 5

- a) What is the total number of horses? 45
- b) Find the difference between the pigs and chickens. 20
- c) What is the combined total of cows and chickens? 40

Ice cream	
Vanilla	
Chocolate	
Strawberry	
Mint	

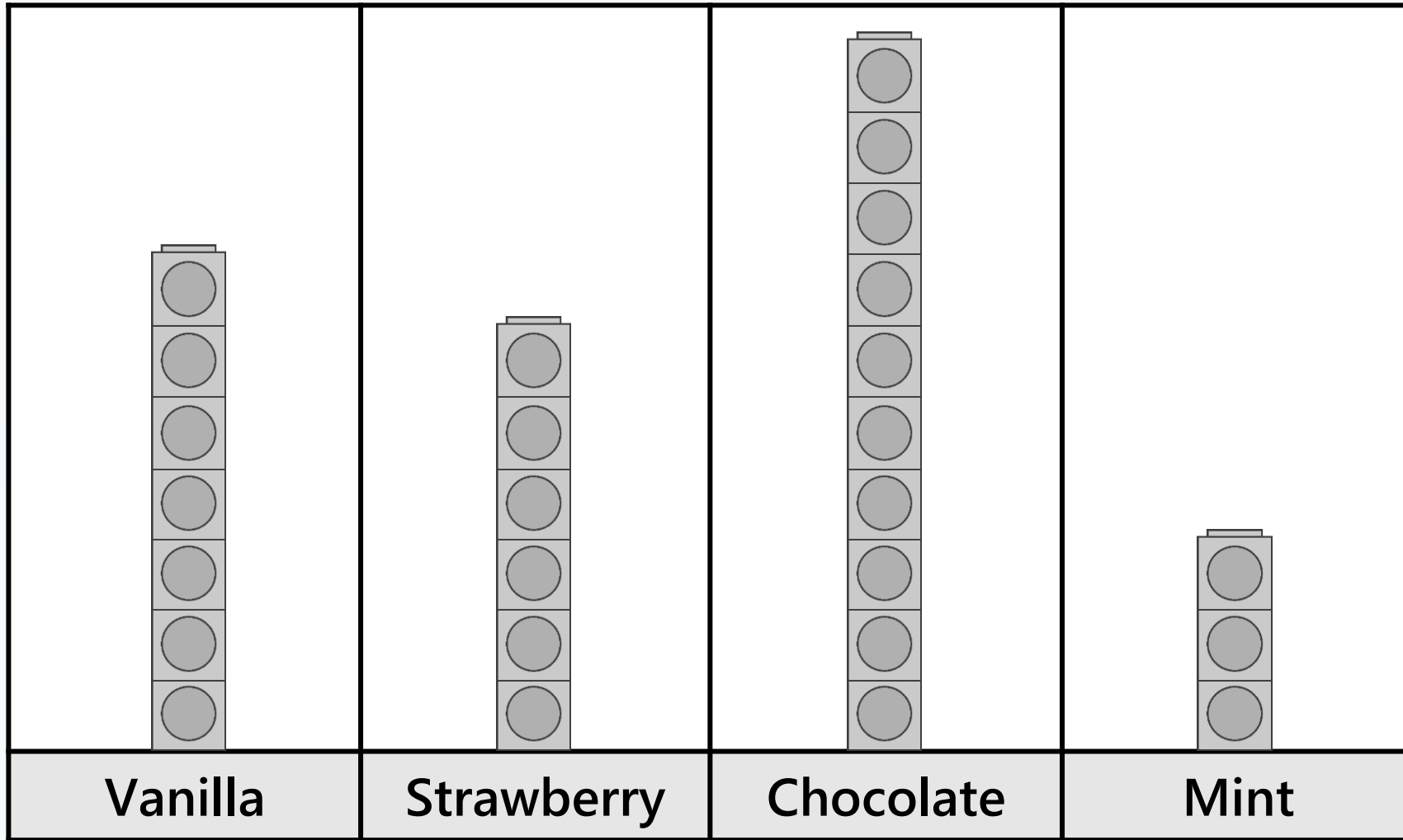
KEY:  = 10

- a) What is the total number of people who like strawberry? 95
- b) Find the difference between chocolate and mint. 75
- c) How many more like strawberry than vanilla? 5

Lollies	
Blackcurrant	
Orange	
Strawberry	
Lemon	

KEY:  = 10

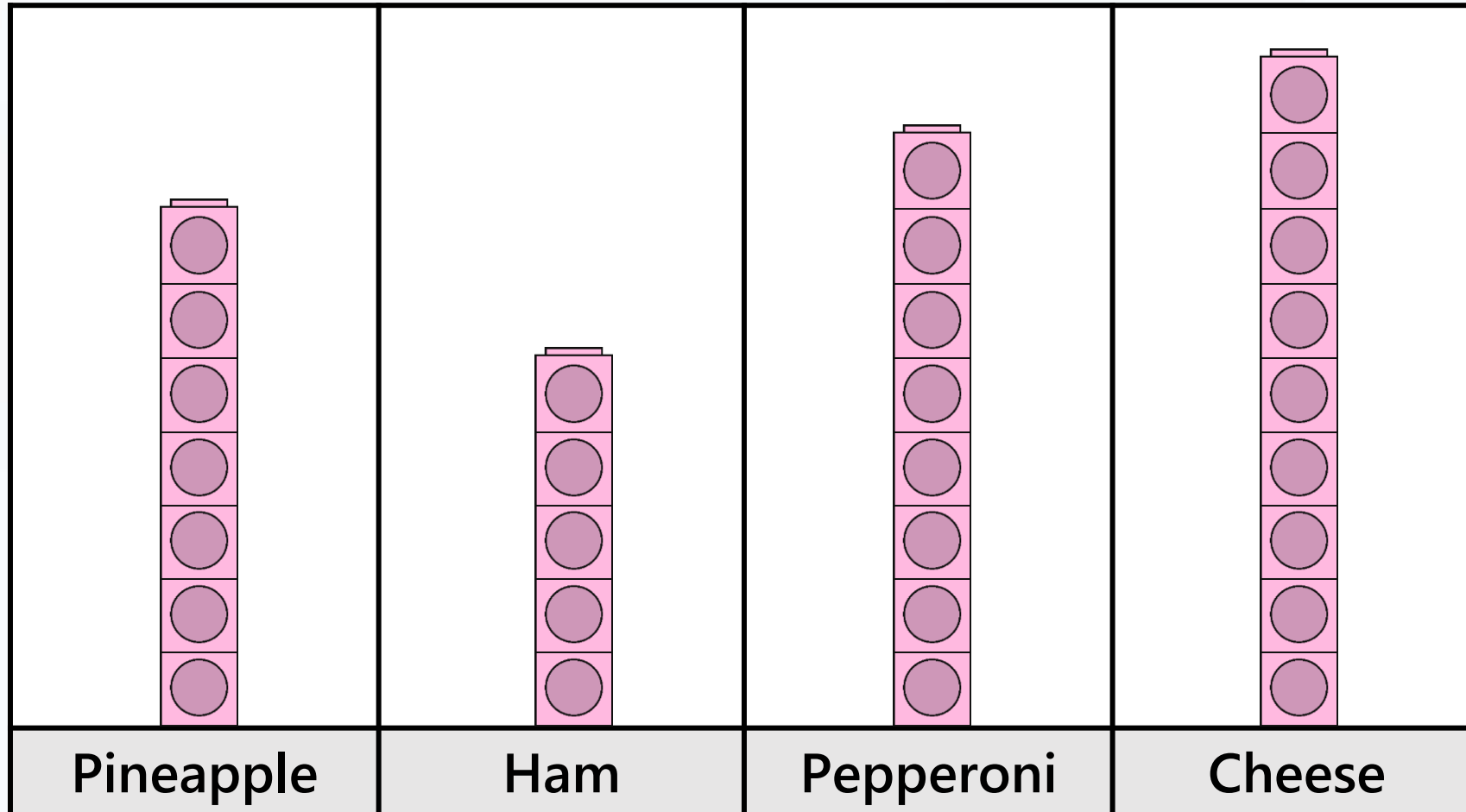
- a) What is the total number of people who like lemon? 35
- b) Find the difference between orange and blackcurrant. 35
- c) What is the combined total of strawberries and lemons? 85

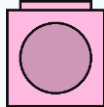


KEY:  = 2

There are 14 people who like vanilla.

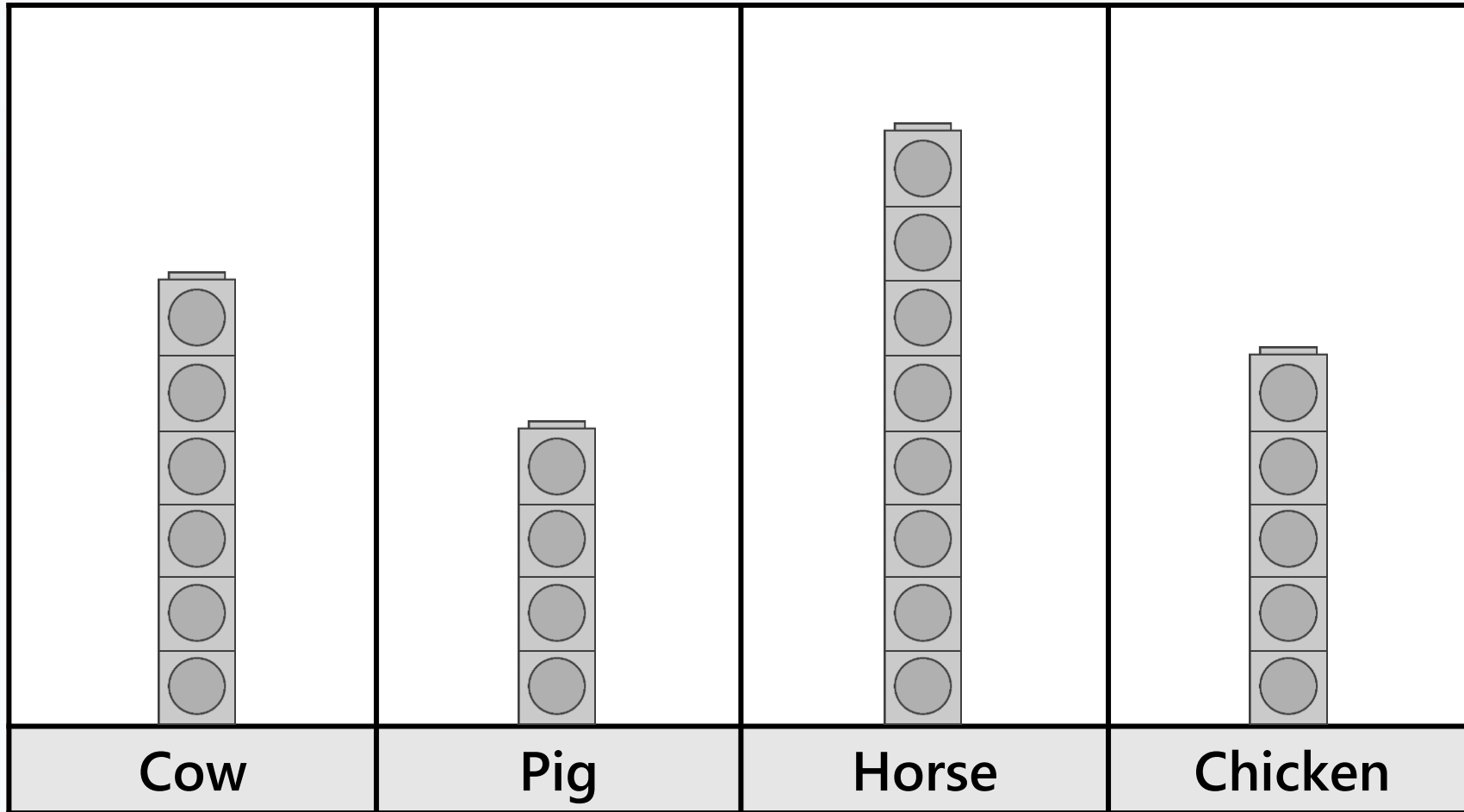
8 more people prefer chocolate to strawberry.



KEY:  = 10

There are 90 people who like cheese.

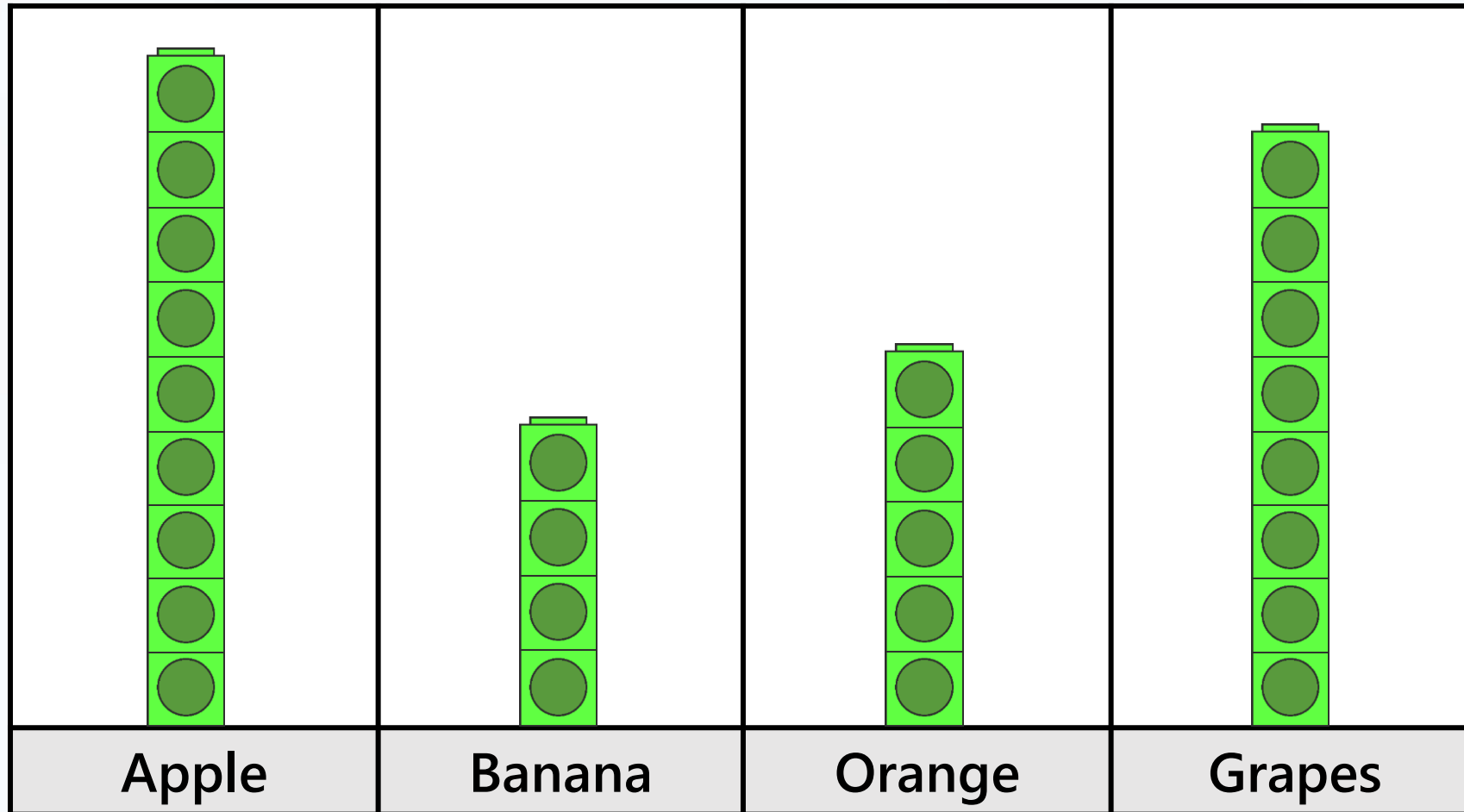
There are 30 more people who prefer pepperoni to ham.

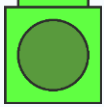


KEY:  = 2

There are 8 pigs and 12 cows.

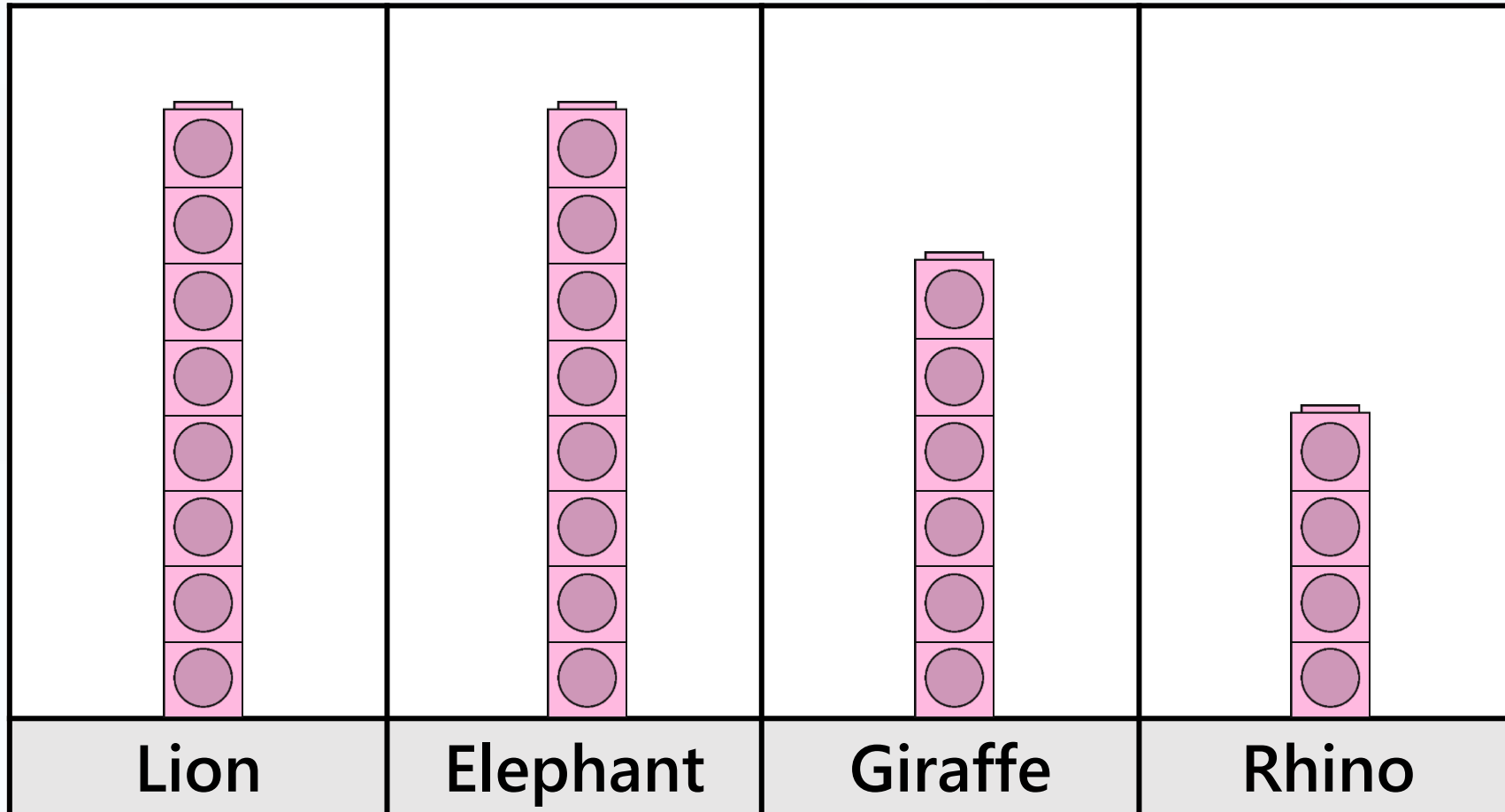
There are 6 more people who prefer horses to chickens.

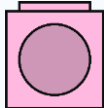


KEY:  = 5

How many people like grapes? 40

There are 20 more people who prefer apples to oranges.

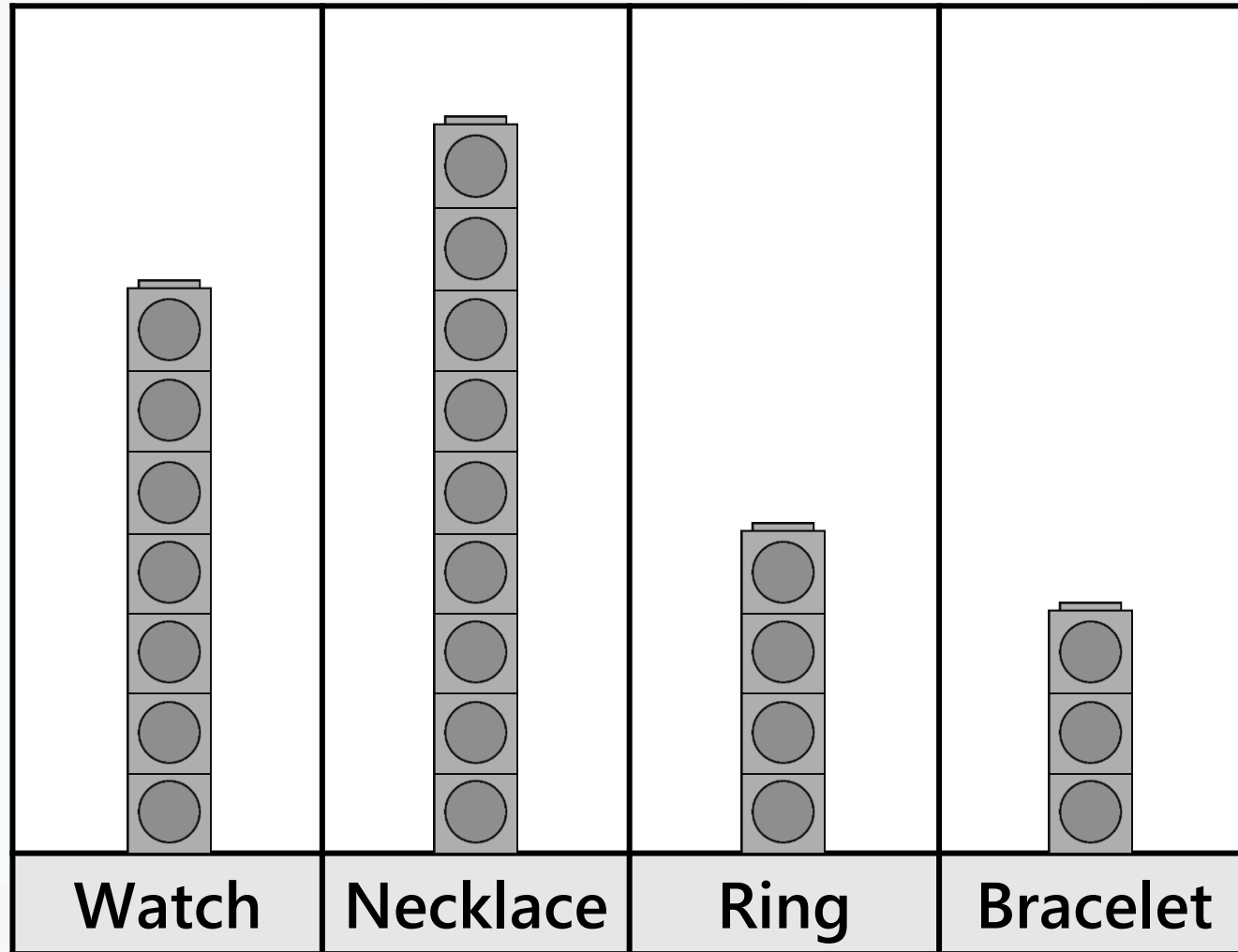



KEY:  = 10

How many elephants were there? 80

How many more lions than rhinos? 40

The pictogram shows the number of jewellery sold.



KEY:  = 10

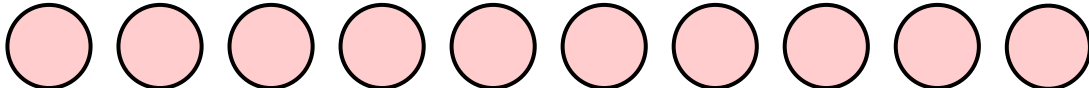
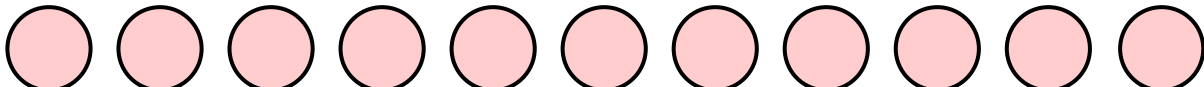
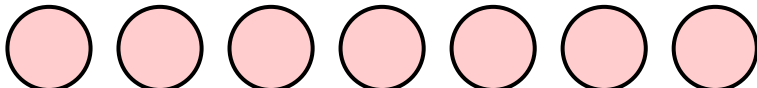
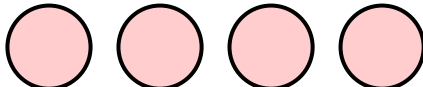
The combined total of rings and bracelets equals watches.

True or false?
Explain how you know.

True.
70 watches, 40 rings & 30 bracelets sold.

$40 + 30 = 70.$

Complete the pictogram using the clues.

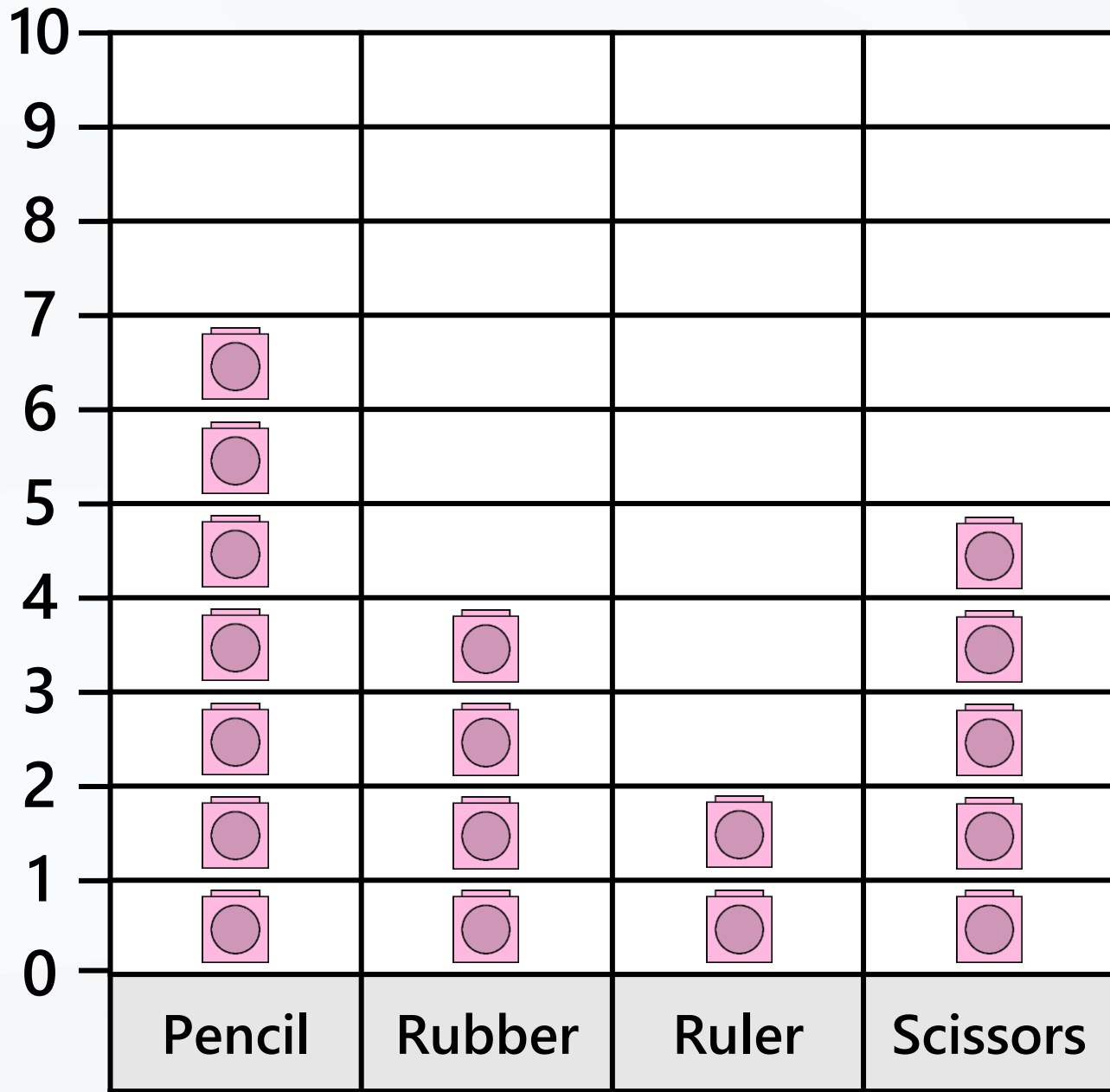
Tree	
Ash	
Birch	
Elm	
Oak	

KEY:  = 5

1. There are 50 ash.
2. There are 5 more birch than ash.
3. There are 20 fewer elm than birch.
4. There are 15 less oak than elm.

Friday Short Lesson 3

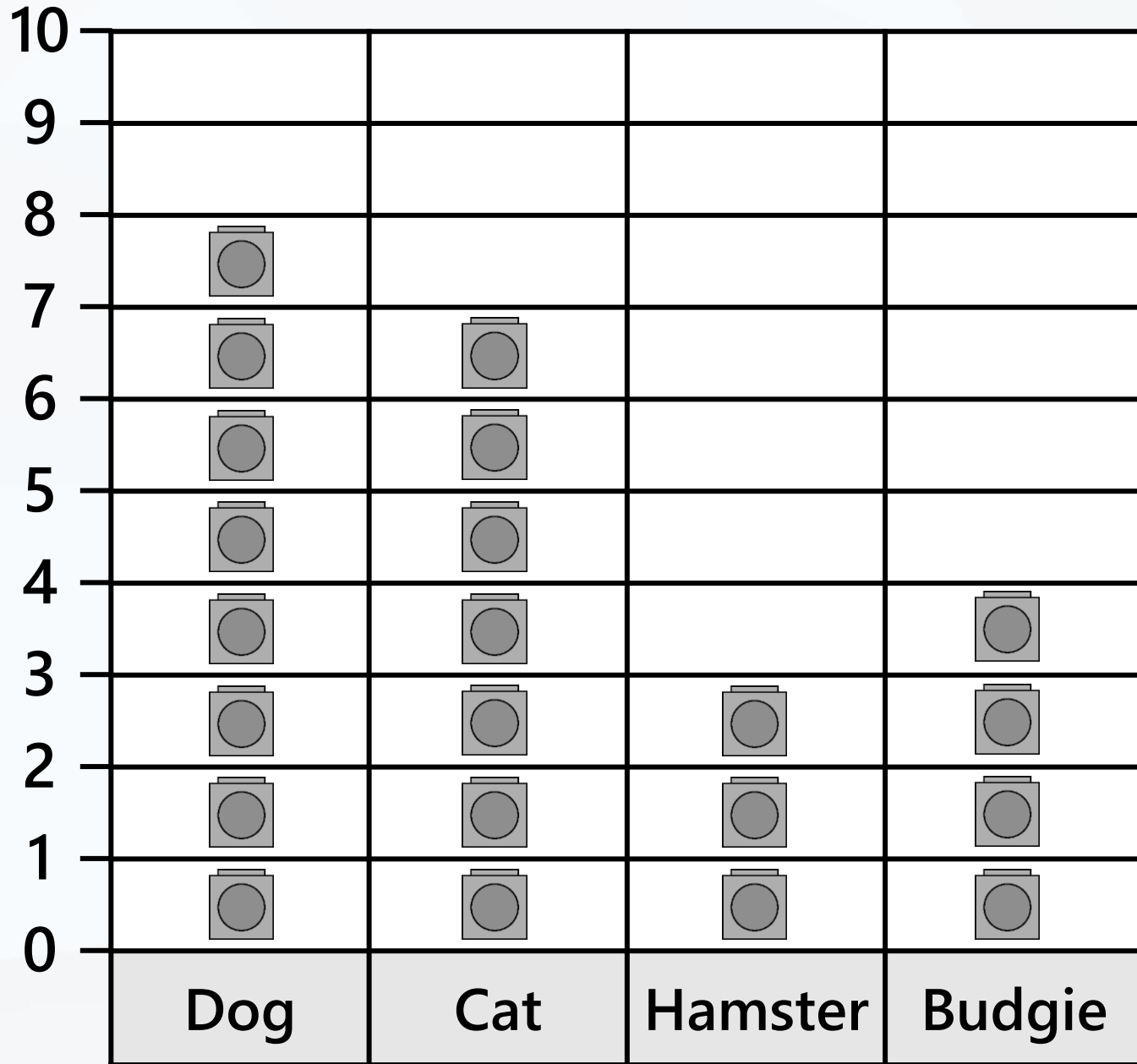
Step: Block diagrams
(Practical)



Use the block diagram to complete the table.

Item	Number
Pencil	7
Rubber	4
Ruler	2
Scissors	5

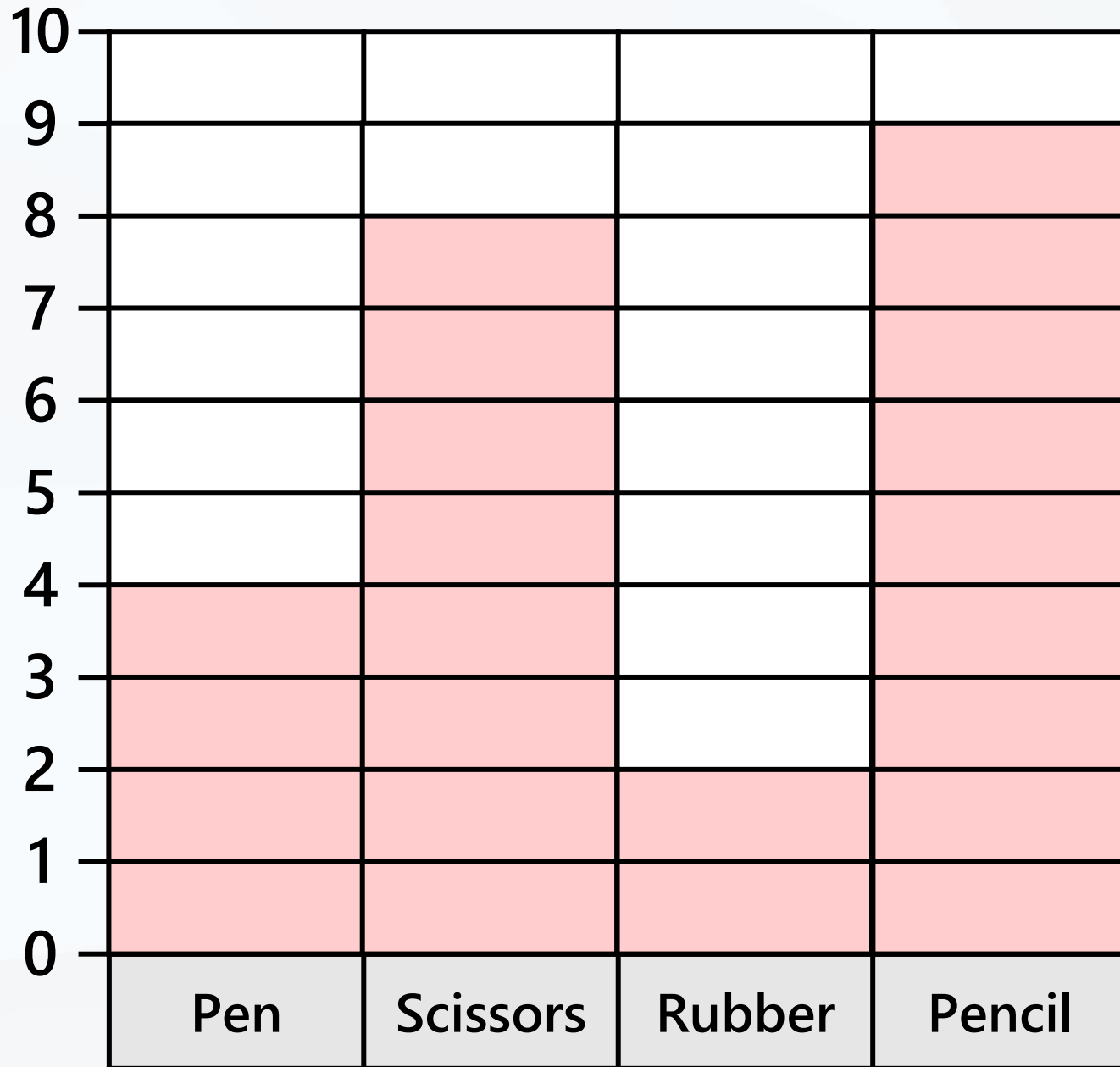
- Which is the most popular?
Pencil
- Which is the least popular?
Ruler



Complete the table using the block diagram.

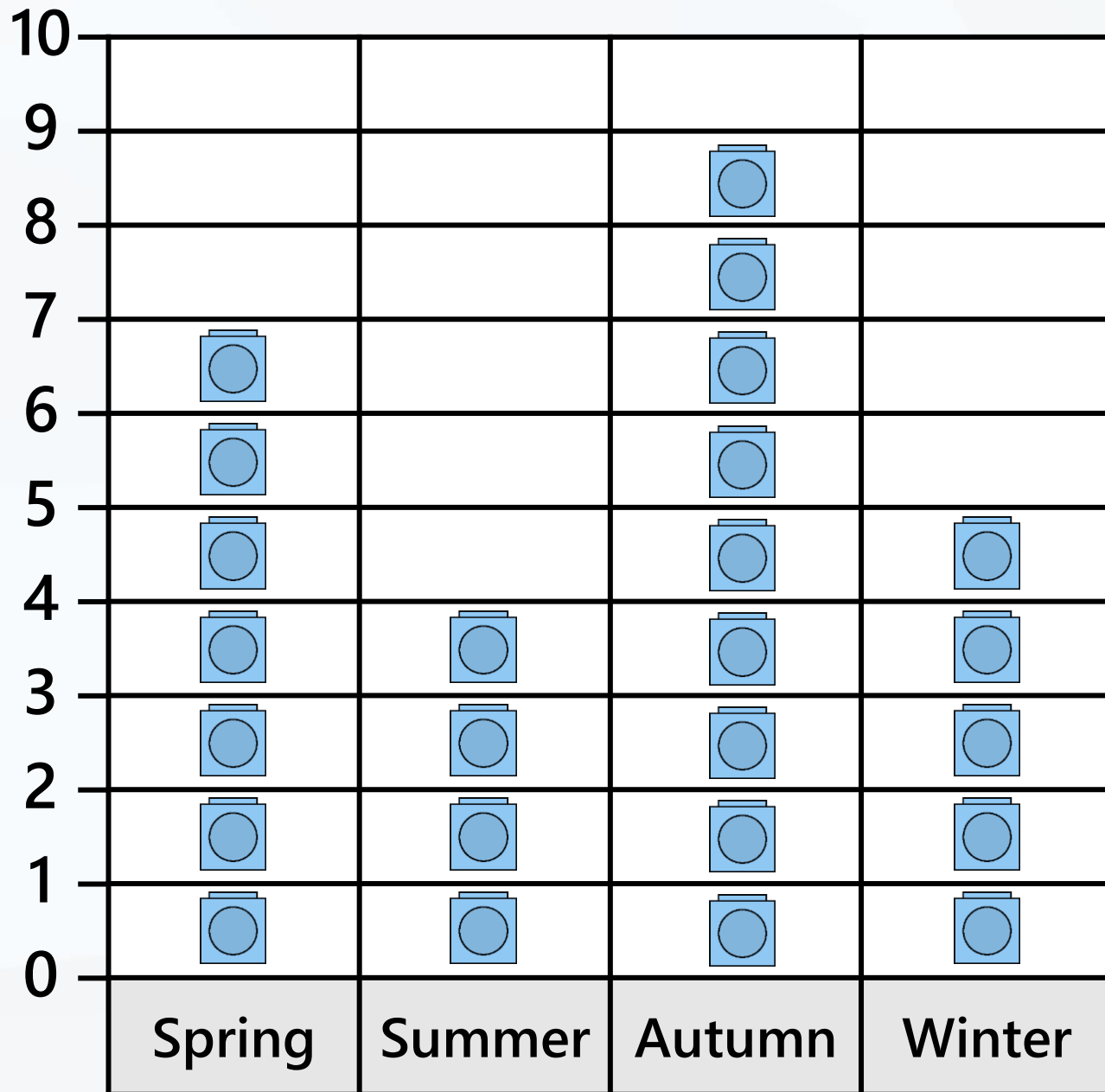
Item	Number
Dog	8
Cat	7
Hamster	3
Budgie	4

- How many more dogs than hamsters? **5**
- How many fewer budgies than cats? **3**



Complete the block diagram using the table.

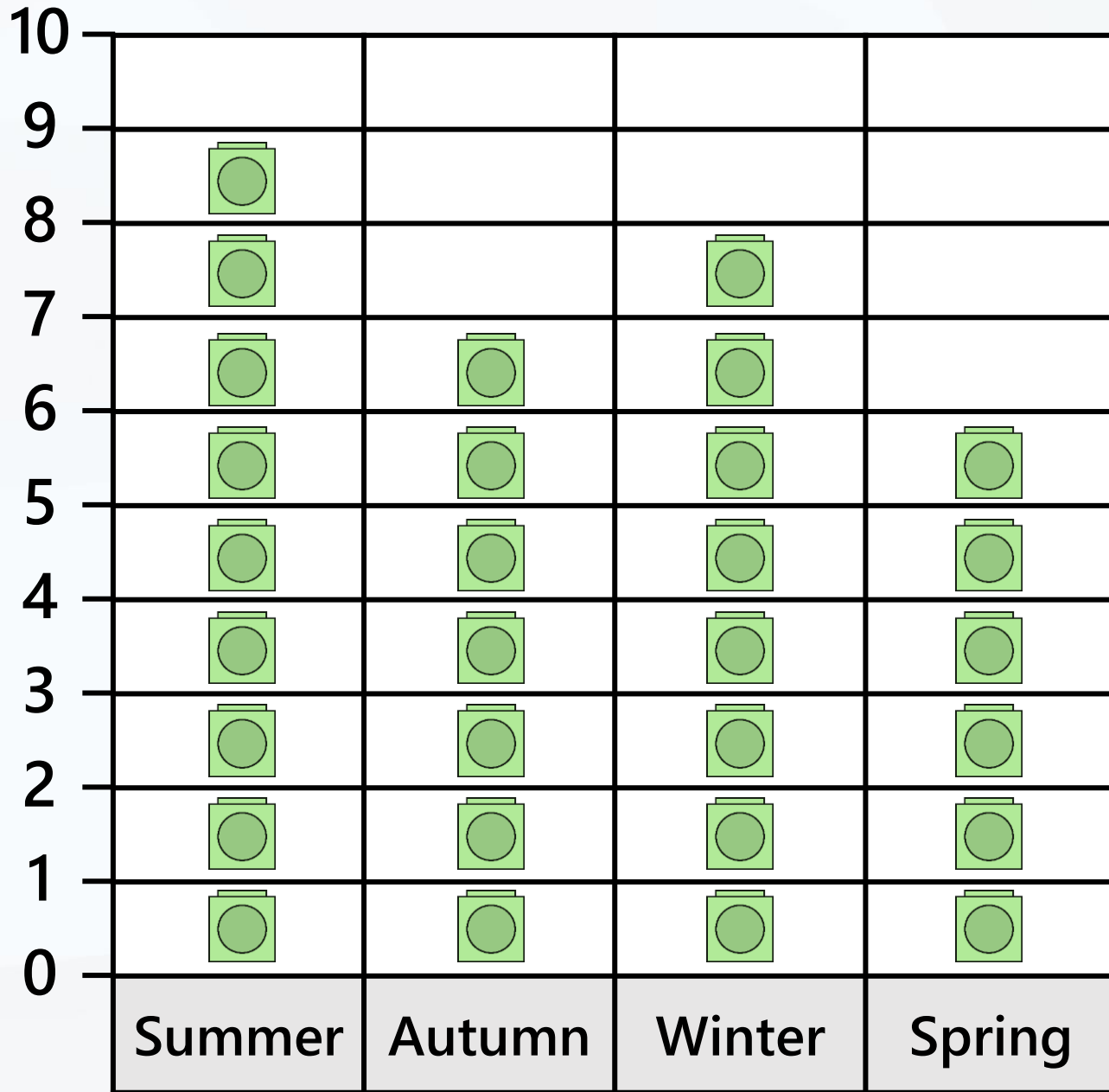
Item	Number
Pencil	9
Rubber	2
Pen	4
Scissors	8



Season	Number
Spring	7
Summer	4
Autumn	9
Winter	6

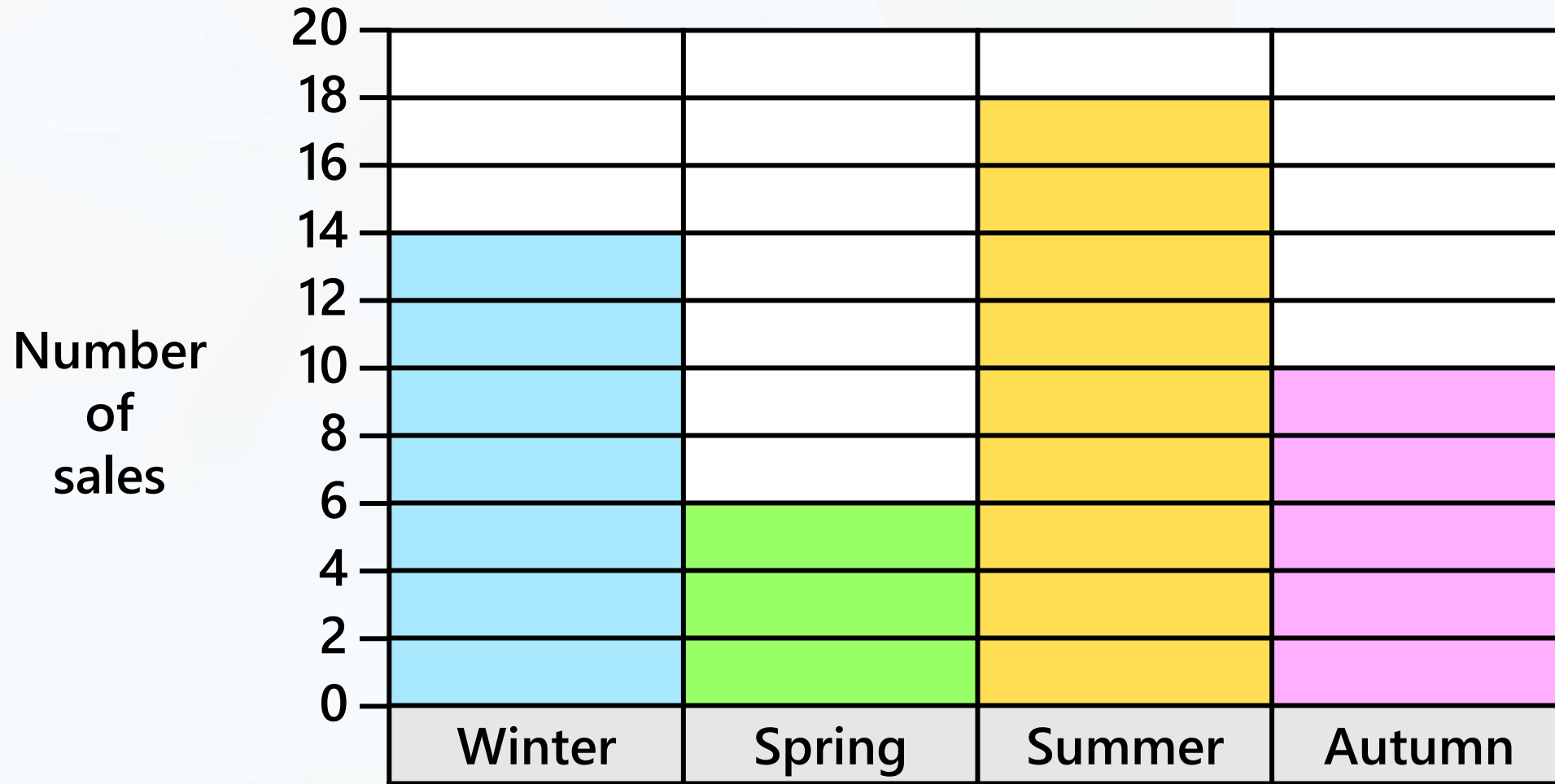
Spot and explain the mistake.

The table shows 6 for winter but the block diagram only shows 5 blocks.



Give the block diagram a suitable title.

Use the block diagram to create your own questions for a partner to solve.

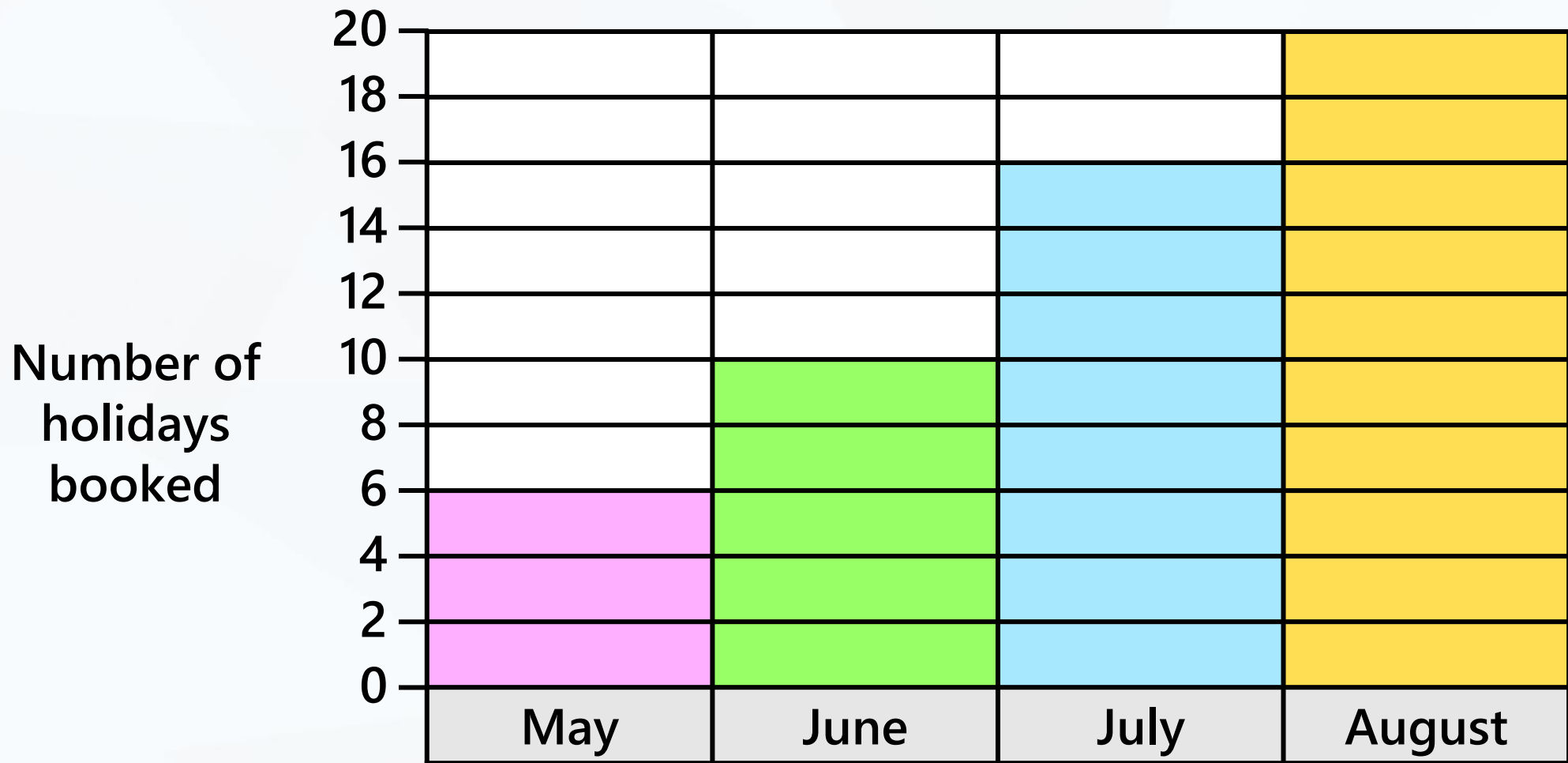


Which season had the most sales? How many?

Summer – 18 sales

Which season had 12 fewer sales than summer?

Spring

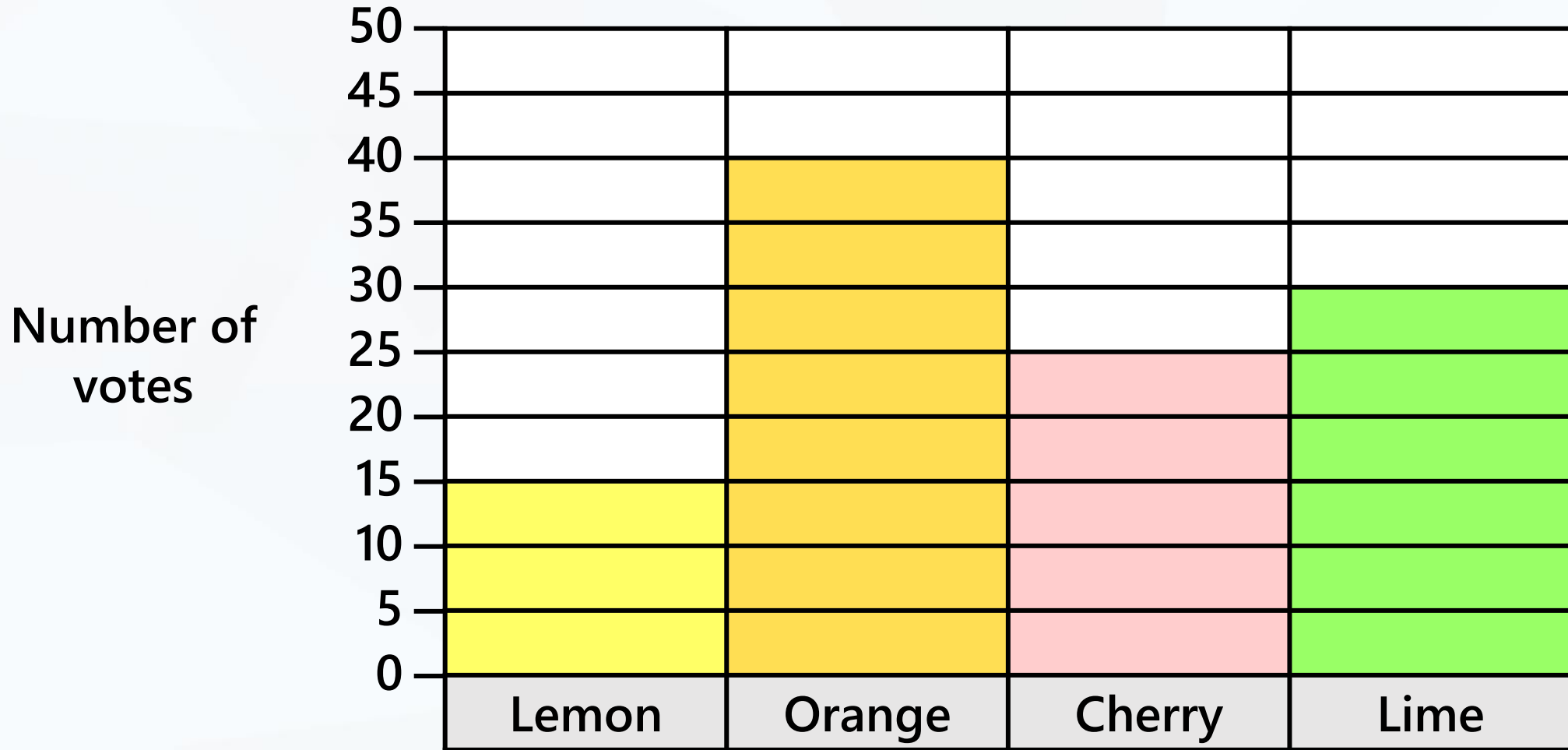


How many more holidays booked in August than July?

4

How many more holidays booked in July than May?

10



Which flavour had 10 more votes than lemon?

Cherry

Which flavour had 25 fewer votes than orange?

Lemon



Which item had 30 fewer in total than pencils?

Scissors

What is the combined total of scissors and pencils?

130

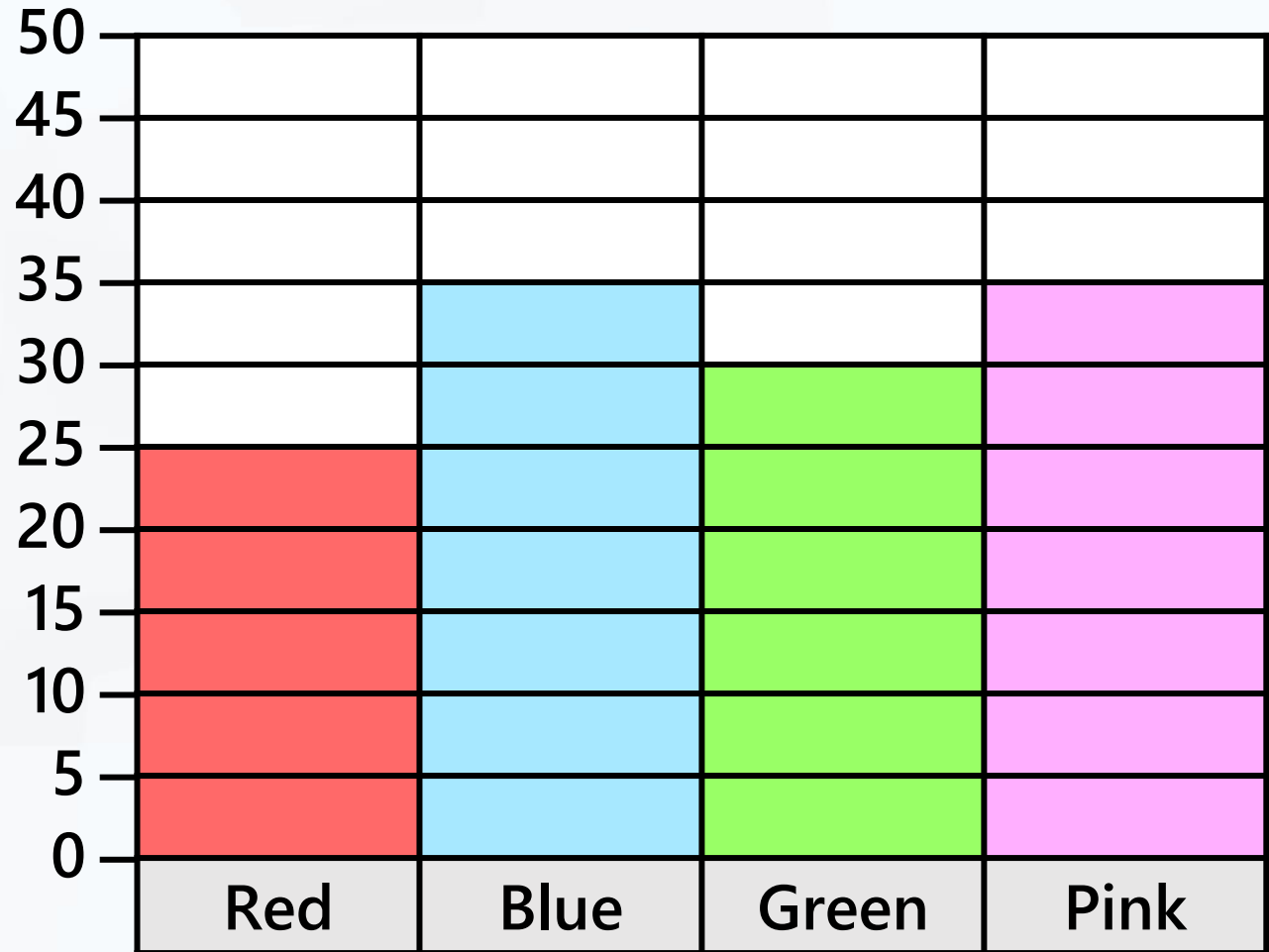


What is the difference between the most and least popular? 70

Which car colour had 50 fewer than blue? Green

The block diagram represents the table below.
True or false? Explain your answer.

Colour	Number
Red	25
Blue	35
Green	30
Pink	40



False.

The table shows 40 pink but the block diagram shows 35.

Use the clues to complete the block diagram.

Trousers sold the most with 90.

Skirts sold 40 less than shirts which sold 30 less than trousers.

There were 200 sales altogether.

