

Level 2 Essential Application of Number Skills Confirmatory test

Maximum duration: 45 minutes

This confirmatory test consists of 20 multiple choice questions.

Sample Assessment - 4

Questions 1 to 4 are about mobile phones.

1. Last year 1 600 people were asked about the way they used their mobile phones.
Of those asked, 34% used their phones to check their bank balance.
How many people said they used their phone to check their bank balance?

1	A	47	
	B	484	
	C	524	
	D	544	

2. In a different survey people were asked which model of mobile phone they own.

The table shows the result of the survey.

Model of Phone	P	Q	R	S
Number of people	23	37	36	24

What percentage of the people said they own phone R?

2	A	30%	
	B	33%	
	C	36%	
	D	40%	

3. A variety of fitness apps are available for smart phones.
The FITZAP app has been downloaded by 24 000 people.
The ratio of men to women who have downloaded the app is 3:5

How many women have downloaded the app?

3	A	4 800		
	B	8 000		
	C	9 000		
	D	15 000		

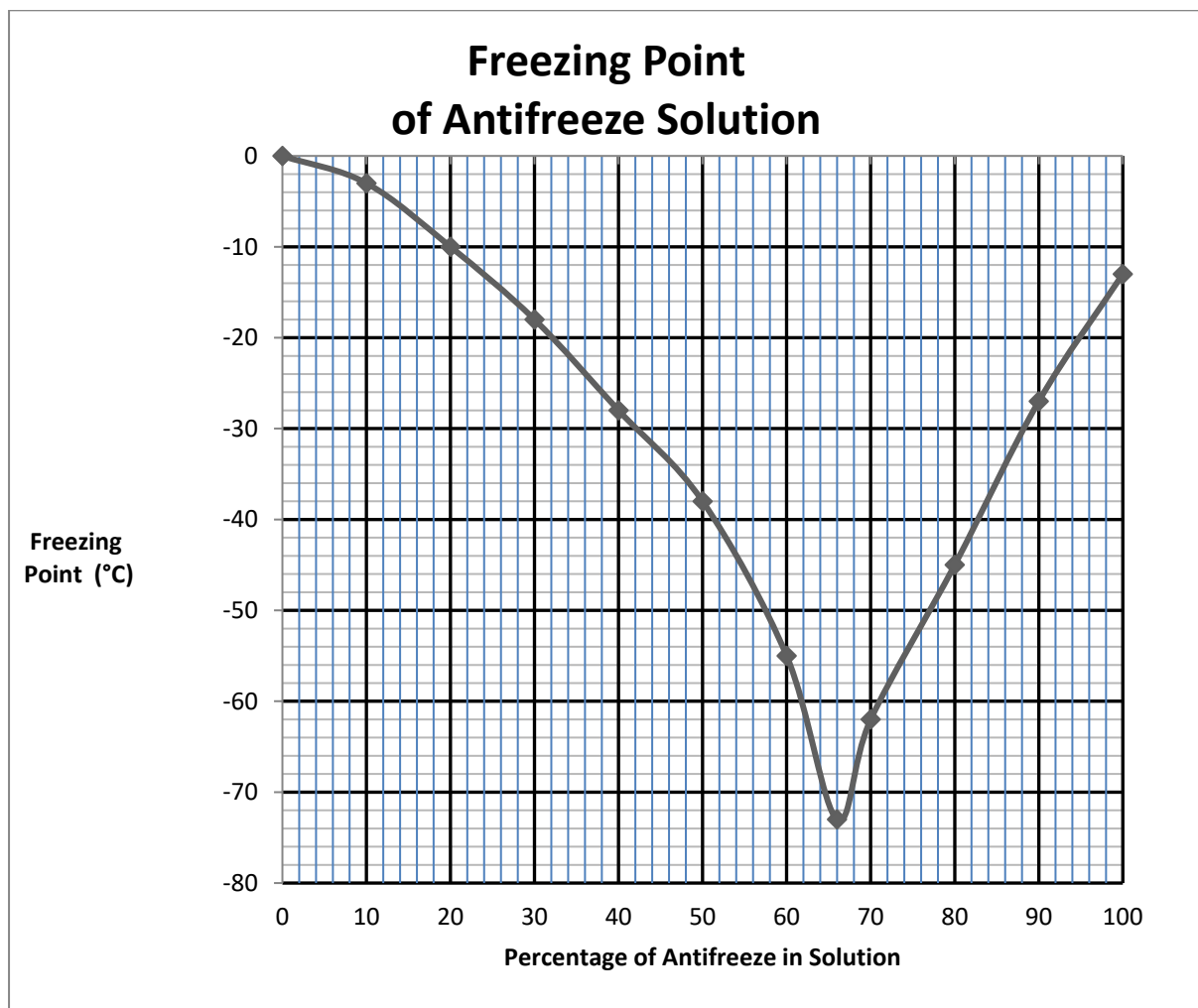
4. In 2014, 64.51 million e- books were sold.
In 2015, 65.1 million e- books were sold.

What is the difference in the numbers of e-books sold in 2014 and 2015?

4	A	690 000	
	B	590 000	
	C	69 000	
	D	59 000	

Question 5 to 7 are about antifreeze.

5. This graph shows the freezing point of antifreeze solution.



What is the minimum percentage of antifreeze required for a solution with a freezing point of -24°C ?

5	A	40%	
	B	36%	
	C	33%	
	D	13%	

6. A mechanic prepares a mixture of antifreeze and water for a car radiator. He needs 3.5 litres of the mixture to fill the radiator. The mechanic uses 1.5 litres of antifreeze in the mixture. He adds water to make the 3.5 litres needed.

What is the ratio of antifreeze to water in the mixture?

6	A	3:7	
	B	4:3	
	C	3:4	
	D	7:3	

7. A company buys 1000 litres of antifreeze for £3 600. It sells the antifreeze for £5.30 per litre.

How much profit does the company make on 2.5 litres of antifreeze?

7	A	£6.75	
	B	£5.75	
	C	£4.25	
	D	£3.95	

Questions 8 to 12 are about a beauty salon.

8. The salon manager compares the numbers of manicures and facials done in the salon.

The table shows the number of manicures done each day in one week.

	Tuesday	Wednesday	Thursday	Friday	Saturday
Manicures	9	8	15	16	14

The mean number of facials is 3.7 per day.

What is **the difference** between the mean number of manicures per day and the mean number of facials per day?

8	A	4.3	
	B	8.7	
	C	10.3	
	D	12.4	

9. The salon sells nail varnish.

Clients can choose between the following nail colours, glitter effects and bottle sizes.

Colour	Glitter effect	Bottle size
red	Gold	Small
pink	Silver	Large
blue	Natural	
purple		
chocolate		

What is the total number of different combinations of colours, glitter effects and bottle sizes?

9	A	10	
	B	11	
	C	17	
	D	30	

10. A client has an appointment at 14:45

She has booked a colour treatment, wash and styling.

Salon Treatments	
Treatment	Time needed
Colour	35 minutes
Wash	$\frac{1}{4}$ hour
Styling	30 minutes

What is the earliest time that the appointment should end?

10	A	3.25 pm	
	B	4.05 pm	
	C	5.25 pm	
	D	6.05 pm	

11. A client books a spray tan and a face massage.

Lux Salon	
Price List	
Face massage	£18.00
Back and shoulder massage	£17.50
Spray tan	£12.60
Eyebrow shape	£6.00
Special offer:	
Book two treatments and save 15%	

What is the total cost of a spray tan and a face massage with the special offer?

11	A	£26.01	
	B	£26.11	
	C	£27.39	
	D	£28.56	

12. The salon apprentice has £143 spending money for his holiday in Italy.
Use this exchange rate:

£1 = 1.30 Euros

How many Euros should he get?

12	A	110.00 Euros	
	B	144.30 Euros	
	C	175.90 Euros	
	D	185.90 Euros	

Questions 13 to 17 are about organising a car boot sale.

13. The car boot sale takes place in a field with an area of 0.8 acres.
Use this information:

$$1 \text{ acre} = 4\,000 \text{ square metres (m}^2\text{)}$$

What is the area of the field in square metres?

13	A	320 m ²	
	B	500 m ²	
	C	3 200 m ²	
	D	5 000 m ²	

14. This formula gives the cost of a space for a vehicle at the car boot sale.

$$c = 10 + 1.5m + 4t$$

c is the cost of a space in £

m is the length of the vehicle in metres

t is the number of hours at the sale

A trader has a vehicle of length 3 metres.

He plans to spend 4 hours at the sale.

What is the cost of the space for the vehicle?

14	A	£15.50	
	B	£22.50	
	C	£29.15	
	D	£30.50	

15. The organisers of the car boot sale take a total of £729

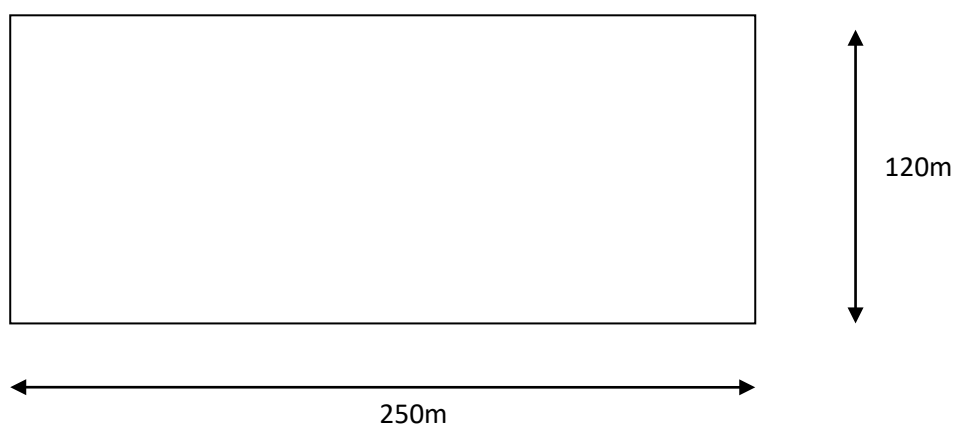
They keep $\frac{2}{9}$ of the takings to cover their costs.

They give the rest to charity.

How much money do they give to charity?

15	A	£497	
	B	£547	
	C	£567	
	D	£650	

16. The plan shows a new site for a car boot sale.



The organisers allow 40 m² of space per vehicle.

The fee for each space is £5.

What is the total of the fees when there is a vehicle in every space?

16	A	£375	
	B	£1 350	
	C	£3 550	
	D	£3 750	

17. This table shows the staffing costs at a car boot sale:

Staffing Costs	
Item	Cost
Wages	£12.50 per hour
Packed lunch	£3.50 each
Hot drink	£1.00 each

At one car boot sale there are 20 members of staff.

Each staff member works for 5 hours.

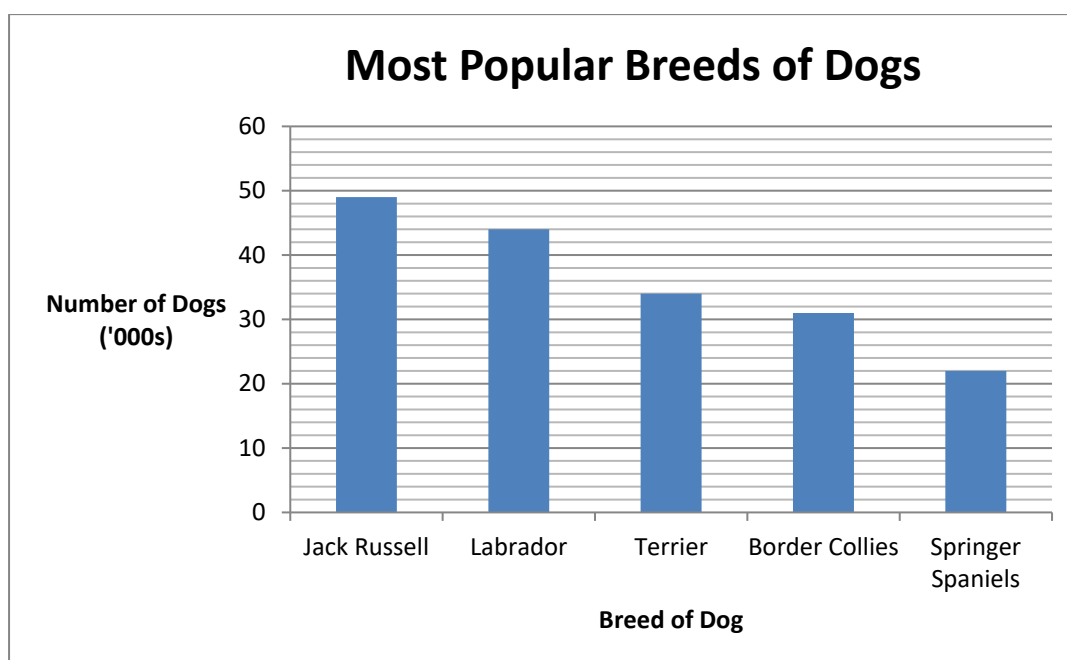
Each staff member receives 1 packed lunch and 3 hot drinks.

What is the total staffing cost for this car boot sale?

17	A	£380	
	B	£1 360	
	C	£1 380	
	D	£1 900	

Questions 18 to 20 are about dogs.

18. The chart shows the numbers of the most popular breeds of dogs in an area of Wales.



How many more Terriers are there than Springer Spaniels?

18	A	16 000	
	B	12 000	
	C	11 000	
	D	6 000	

19. A dog care business uses this formula to calculate the cost of its dog walking service:

$$C = n(8 + 2.5d)$$

C is the total cost in £

n is the number of dogs

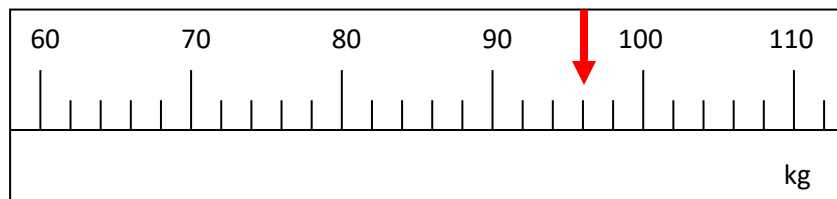
d is the distance walked in km

What is the total cost for taking 2 dogs for a 3 km walk?

19	A	£55	
	B	£31	
	C	£23.50	
	D	£15.50	

20. A man wants to find the weight of his dog.
He picks up the dog and stands on a weighing scale.

The diagram shows the weight of the man and the dog.



The man weighs 78 kg.

What is the weight of the dog?

20	A	10 kg	
	B	15 kg	
	C	18 kg	
	D	20 kg	