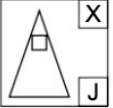
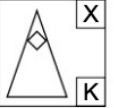
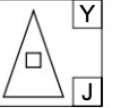


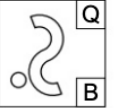
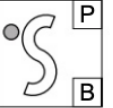
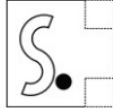


In the boxes on the left are shapes with code letters. The top letters have a different meaning to the bottom ones. Work out how the letters go with the shapes and then find the code for the new shape from the five codes on the right.

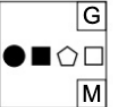
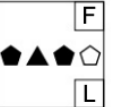
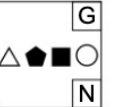
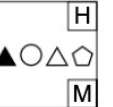
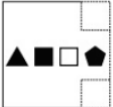
11.

 X	 X	 Y		X	Y	X	Y	X
J	K	J		J	J	K	K	L
				a	b	c	d	e

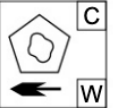
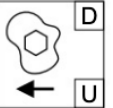
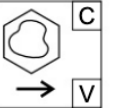
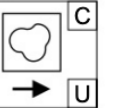

12.

 P	 Q	 P		Q	Q	P	Q	P
D	B	B		B	C	D	D	B
				a	b	c	d	e

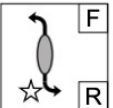
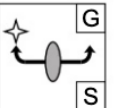
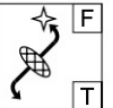
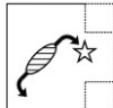
13.

 G	 F	 G	 H		F	H	F	G	F
M	L	N	M		M	N	L	M	N
					a	b	c	d	e

14.

 C	 D	 C	 C		C	D	C	C	D
W	U	V	U		W	V	V	U	W
					a	b	c	d	e

15.

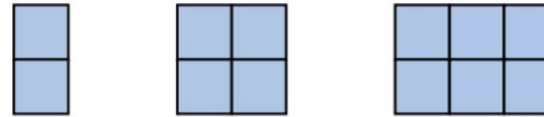
 F	 G	 F		F	G	F	G	F
R	S	T		S	R	R	T	T
				a	b	c	d	e

You have **10 minutes** to do this test. Work as quickly and accurately as you can.

1. In a lucky dip game, you win a prize if you randomly pick three factors of 24. Which set of three numbers below would win a prize? Circle the correct option.

- A 3, 10, 12 **C 3, 4, 12** E 2, 5, 8
 B 6, 8, 11 D 2, 14, 20

2. Teddy is stacking boxes in the sequence shown.



How many boxes will there be in the stack that is 50 boxes wide?

Answer: 100

3. Charlie needs to buy some fresh hay to put in the rabbit hutches in a pet shop. 1 bag of hay covers 3 rabbit hutches. How many full bags will he need to buy for 20 hutches?

Answer: 7

4. Joan is varnishing the floor of her dining room. The floor is a rectangle measuring 5 m x 6 m. One tin of varnish covers an area of 10 m² and costs £4. How much will it cost to varnish the surface of the floor?

Answer: £ 12

5. Melissa is thinking of a shape, and Joshua is trying to guess it by asking questions. He asks, "Does it have four sides?". Melissa says, "Yes." Which of the following questions does Joshua not now need to ask? Circle the correct option.

- A Does it have parallel sides?
- B Is it symmetrical?
- C** Do the angles add up to 360° ?
- D Do any sides have the same length?
- E Does it have a right angle?

6. Five cars are lined up, one in front of another, in a car showroom. Each car has a length of 4 m, and there is a gap of 0.5 m between the front end of each car and the back end of the car in front of it. What is the total distance between the first and last car, including the length of those cars? Circle the correct option.

- A 19 m
- B 21.5 m
- C 22.5 m
- D** 22 m
- E 23 m

7. The table shows the number of cups of tea that Scott drinks each day over a week.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
9	7	5	4	5	2	3

What is the mean number of cups of tea that Scott drinks from Monday to Friday. Circle the correct option.

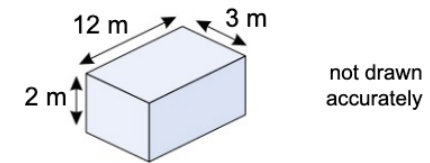
- A 4
- B 5
- C** 6
- D 7
- E 8

8. Hassan recorded the temperature in his garden at different times of the day. In the morning, the temperature was 8°C . By the afternoon, the temperature had increased by 75%. What was the temperature in the afternoon?

$$3 \frac{1}{4} \text{ of } 8$$

Answer: 14 $^\circ\text{C}$

9. Jerry sells tables that come in boxes measuring $2\text{ m} \times 1\text{ m} \times 1\text{ m}$. He is sending a shipment abroad and hires the shipping container shown in the diagram below.



How many boxes can Jerry fit in the container? Circle the correct option.

- A 2448
- B 144
- C 120
- D 96
- E** 36

10. The cost of staying at a campsite is $\pounds 14$ per night for the pitch, plus $\pounds 4$ for each camper. Dogs are permitted, at a cost of $\pounds 2$ per dog per night. Which expression shows the cost per night of staying at the campsite for c people and d dogs? Circle the correct option.

- A $14c + 2d$
- B $cd(14 + 4 + 2)$
- C** $14 + 4c + 2d$
- D $14 + (4 + c) + (2 + d)$
- E $56c + 28d$

T6 S3 Verbal Reasoning

You have **10 minutes** to do this test. Work as quickly and as accurately as you can.

Underline two words, one from each set of brackets, that have the most similar meaning.

Example: (plate bowl cup) (fork mug whisk)

1. (brave bulky athletic) (tough robust valiant)
2. (weep groan afflict) (outcry sob fret)
3. (guilty startled perplexed) (confused blamed misled)
4. (motion tremor squirm) (flicker quiver shuffle)
5. (paddle float stroke) (drift slide bathe)

Find a word which, when put at the start or end of each set of three words, makes three new words. Write your answer on the line.

Example: case maker mark book

6. life show day
7. wind pit foot
8. ground fire space
9. glow life noon
10. pit wood side

time
fall
back
after
fire

Three of the words in each list are linked. Underline the two words that are not related to these three.

Example: dog cat fox gerbil badger

11. nibble carve mow slice gnaw
12. crate cupboard carton sack chest
13. applaud cheer chatter babble praise
14. tepid bitter frosty bleak mild
15. absurd preposterous ludicrous amusing droll

Look at the definition on the left. Underline the word on the right that best matches the definition.

Example: to jog slowly scurry lunge sprint trot

16. to start commence pursue endure promote
17. delicate or weak trivial exquisite flimsy petty
18. a mixture excerpt combined segment medley
19. to block from view deceive obscure perceive deter
20. very changeable movable volatile brutal tranquil

T6 S3 Non-Verbal

You have **10 minutes** to do this test. Circle the letter underneath each correct answer.

Each of the questions below has five figures.
Find which figure in each row is most unlike the others.

1. a b c **d** e
2. a b c d **e**
3. a b c **d** e
4. a b c d **e**
5. a b c d **e**

Each question has two shapes on the left with an arrow between them. The first shape is changed in some way to become the second. There is then a third shape followed by an arrow and a choice of five shapes. Choose the shape on the right that relates to the third shape like the second does to the first.

6. a b c d **e**
7. a b **c** d e
8. a **b** c d e
9. a b c d **e**
10. a b c **d** e