

Year 3/4 Enriching OC Maths+TS Test

Time: _____ Mark: _____

For each multiple-choice question, choose **one** correct answer. **Record the time you spent on the test.**

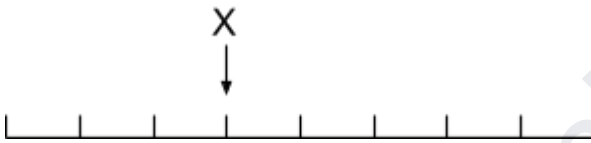
1. Five cards with the digits 0, 1, 2, 3, and 4 arranged to form the **smallest 5-digit odd** number.



Which digit is in the tens place?

- A 0 B 1 C 2 D 3 E 4

2. The numbers 12, 7, 11, 9, and 15 can each be placed under a mark on this number line:



Which number must be at X?

- A 3 B 8 C 10 D 13 E 14

3. The total mass of the objects on the left side of the balancing scales is the same as the total mass of the objects on the right.



If the mass of \triangle is 6 grams, what is the mass of \square in grams?

- A 4 B 6 C 7 D 8 E 9

4. Five boxes are compared on a balance. Which of the five boxes is the **heaviest**?



A A



B B

C C



D D



E E

5. What number do you get if you add 11 ones, 22 tens, 33 hundreds, and 44 thousands?

A 54321

B 43211

C 47931

D 47531

E 44332211

6. Amy is thinking of two numbers whose sum is 16 and whose difference is 8. What is the product of the two numbers?

A 32

B 40

C 48

D 64

E 128

7. There are 2500 animals in a forest. Among them,

- 259 are deer
- 795 are bears

About how many animals are not deer or bears, if each number is **rounded** to the nearest **tens**?

A 1340

B 1400

C 1440

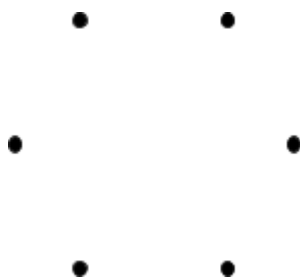
D 1446

E 1540

8. A **line segment** is the **straight** part of a line between **two points**. For example:



What is the maximal number of line segments that can be drawn to connect the six points shown below?



A 6

B 10

C 15

D 21

E 30

9. Benjamin starts from the year 2025 and counts down 7 at a time, giving the sequence

2025, 2018, 2011, 2004, ...

Which of the following years will she count?

- A 1887 B 1888 C 1889 D 1891 E 1892

10. David wants to cover his door with photos.

The door is rectangular, measuring 0.8 m by 1.8 m.

The photos are all rectangular, measuring 9 cm by 20 cm.

How many photos will he need if he wants to leave no spaces?

- A 8 B 10 C 80 D 90 E 100

11. I bought three chocolate bars worth \$2.50 each and 4 milkshakes worth \$1.25 each.

How much change did I get from a \$20 note?

- A \$12.50 B \$10.50 C \$8.50 D \$8.05 E \$7.50

12. A letter **G** is rotated **anti-clockwise** three-quarters of a turn.

Which of the following pictures best represents the final image?



13. Which of the following statement(s) is/are correct?

1. All Rhombuses are Kites.
2. All Rhombuses are squares.
3. All Rhombuses are parallelograms.

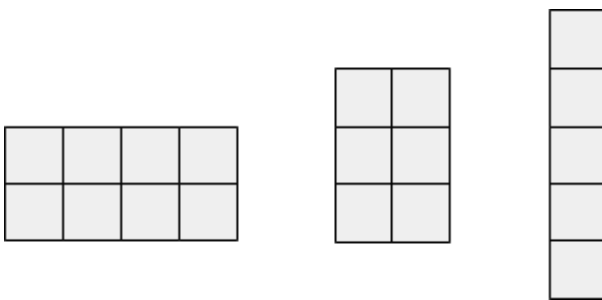
- A statement 1 only B statement 2 only C statement 1 and 2 only
D statement 1 and 3 only E All of them

14. Amy saw the clock in the mirror, as shown. What is the actual time?

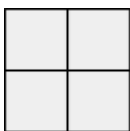

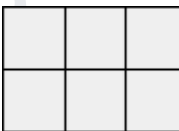
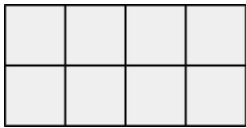
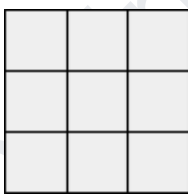


- A 2:20 B 2:40 C 3:50 D 9:20 E 9:40

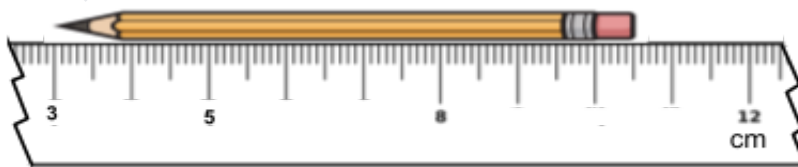
15. Samuel makes a square from four rectangular pieces. Three of the pieces are shown.



Which of the following is the fourth piece?

- A  B  C 
- D  E 

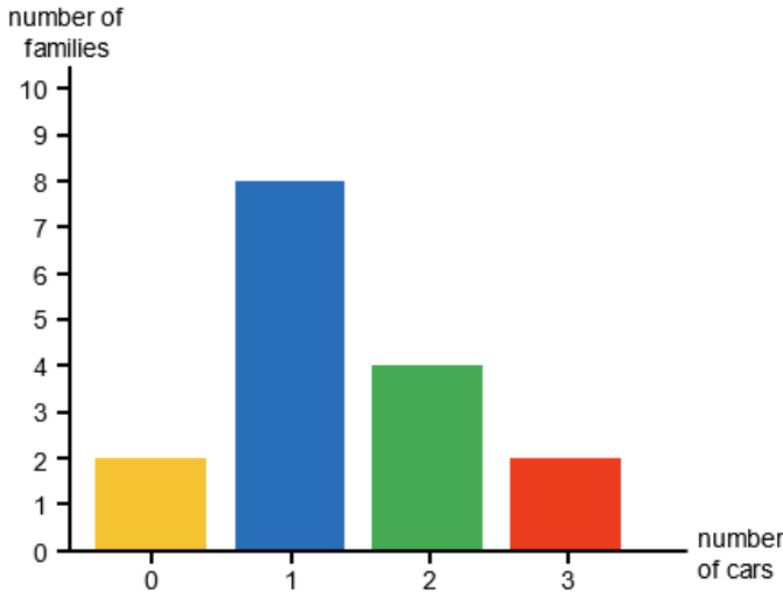
16. James has a broken ruler with some numbers missing. He uses it to measure the length of his pencil, shown below. What is the length of the pencil?



What is the length of the pencil?

- A 105cm B 105mm C 65 mm D 75mm E 9 cm

17. The number of cars in the family of each child in a class is recorded.



Which one of the following statements is true?

- A No families have two cars.
- B Six families have at least two cars each.
- C Most of the families have 2 cars.
- D Every family has at least one car.
- E Three families have exactly two cars each.

18. The table shows the number of boys and girls aged 10 or 11 in year 5.

	Age 10	Age 11	Total
Girls	14	25	39
Boys	9	?	46
Total	23	62	85

How many boys aged 11 are in year 5?

- A 20
- B 21
- C 37
- D 48
- E 54

19. There are five red, five green, and five yellow jelly beans in a jar.

How many would you need to take out of the jar without looking, to sure that you have removed at least two of the different colors?

- A 2
- B 3
- C 4
- D 6
- E 9



make

20. Alan had \$10. He gave some of this money to Kiana. Then he gave half of what he had left to Jason. Jason gave half of what he was given to Lenny. Lenny received \$1.60. How much did Alan give to Kiana?

- A \$3.20 B \$3.60 C \$4.80 D \$6.40 E \$8.40

21. Julia completed her math exam before her science exam, but after her history exam.

Her art exam was on the same day as her science exam, but one day before her English exam.

One exam was taken at least a day before any of the others. Which exam was it?

- A Math B History C Science D Art E English

22.

Oak trees are large trees that usually have lobed leaves and produce acorns.



Mason said, "This tree in my backyard must be an oak, because it has lobed leaves and produces acorns."

Which one of the following sentences shows the **mistake** Mason has made?

- A Not all oak trees grow in the backyard.
B Some oak trees may not produce acorns every year.
C There are trees with lobed leaves and producing acorns that are not oak trees.
D Oak trees are not the only trees found in backyards.

23. A high school teacher says: "Using pictures to study is a great way to remember things better.

When you connect information with images, it sticks in your mind more easily!"

Which one of these statements, if true, best **supports** the teacher's claim?

- A Many students enjoy drawing while studying.
B People often remember images faster than written words.
C Some students like using pictures in their notes.
D Not all subjects are easy to turn into pictures.

24. During lunch, a cookie was missing from the cafe. Only Emma, Noah, and Olivia were present.

- a. Emma said: "I saw Olivia take it."
- b. Noah said: "Emma didn't do it."
- c. Olivia said: "I didn't take it."

If only one of them is telling the truth, who took the cookie?

- A Emma B Noah C Olivia D No enough information to tell.

25. Here are four sentences and their translations into Cinglish, an invented language. The two lists are not in the same order.

English	Cinglish
Mum likes apples.	Ege cemz kitoz.
Dad likes grapes.	Ata temz kitoz.
Brother loves apples.	Bae cemz tikozi.
Sister loves apples.	Elo temz kitoz.

How should we translate the sentence 'Sister loves grapes'?

- A Bae cemz kitoz. B Ata temz tikozi. C Ege temz tikozi.
D Elo cemz kitoz.