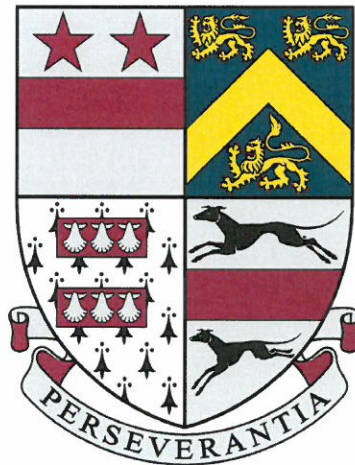


# SOLIHULL JUNIOR SCHOOL

**7+ ENTRANCE EXAMINATION**

**MATHEMATICS**

**SAMPLE PAPER 2**



# SOLIHULL

# SOLIHULL SCHOOL 7+ ENTRANCE EXAMINATION

## MATHEMATICS

### SAMPLE PAPER

Time 45 minutes

Answer all the questions in the spaces provided. Make sure that your answers are clear. You may use the spaces around each question to do your working out. If you cannot do a question, leave it and go on to the next.

1. Write these numbers in figures:

a. Thirty-three \_\_\_\_\_

b. Thirteen \_\_\_\_\_

c. Two hundred and forty nine \_\_\_\_\_

d. Six hundred and one \_\_\_\_\_

2. Write these numbers in order, starting with the smallest first:

a. 78 9 41 81 28

\_\_\_\_\_

b. 61 16 60 6 66

\_\_\_\_\_

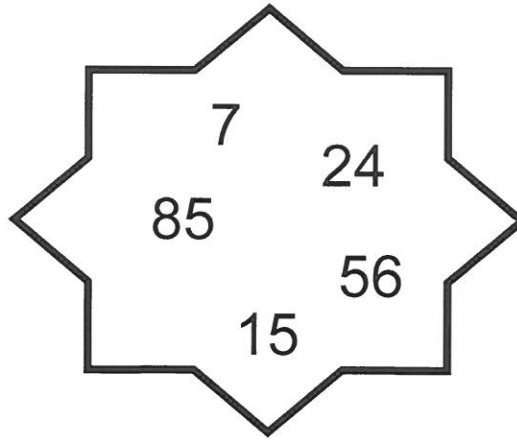
3. Write the next 2 numbers:

a. 15, 20, 25, 30, \_\_\_\_\_, \_\_\_\_\_

b. 23, 22, 21, 20, \_\_\_\_\_, \_\_\_\_\_

c. 497, 498, 499, \_\_\_\_\_, \_\_\_\_\_

4.



a) Which of these numbers are even? \_\_\_\_\_

b) Which of these numbers are odd? \_\_\_\_\_

5. Work out these additions:

a.  $10 + 3 =$  \_\_\_\_\_

b.  $15 + 4 =$  \_\_\_\_\_

c.  $4 + 5 + 3 =$  \_\_\_\_\_

d.  $6 + 2 + 4 + 5 =$  \_\_\_\_\_

e.  $53 + 6 =$  \_\_\_\_\_

f.  $49 + 5 =$  \_\_\_\_\_

g.  $37 + 12 =$  \_\_\_\_\_

h.  $63 + 34 =$  \_\_\_\_\_

i.  $28 + 17 =$  \_\_\_\_\_

j. 
$$\begin{array}{r} 43 \\ + 5 \\ \hline \end{array}$$

\_\_\_\_\_

k. 
$$\begin{array}{r} 74 \\ + 14 \\ \hline \end{array}$$

\_\_\_\_\_

l. 
$$\begin{array}{r} 59 \\ + 38 \\ \hline \end{array}$$

\_\_\_\_\_

m. 
$$\begin{array}{r} 246 \\ + 36 \\ \hline \end{array}$$

\_\_\_\_\_

6. Write down the missing number:

a.  $5 + \square = 12$

b.  $\square + 6 = 13$

c.  $3 + \square + 4 = 14$

7. a. Emma eats 7 apples before lunch and 3 apples after lunch.

How many apples did she eat altogether?

Answer: \_\_\_\_\_

b. How many more apples did Emma eat before lunch than after lunch?

Answer: \_\_\_\_\_

8. Work out these subtractions:

a.  $12 - 4 =$  \_\_\_\_\_

b.  $19 - 6 =$  \_\_\_\_\_

c.  $36 - 5 =$  \_\_\_\_\_

d. 8 less than 22 = \_\_\_\_\_

e.  $52 - 36 =$  \_\_\_\_\_

f. Find the difference between 30 and 8 \_\_\_\_\_

$$\begin{array}{r} \text{g.} \quad 27 \\ \underline{\quad 3} \\ \hline \end{array}$$

$$\begin{array}{r} \text{h.} \quad 46 \\ \underline{\quad 14} \\ \hline \end{array}$$

$$\begin{array}{r} \text{i.} \quad 43 \\ \underline{\quad 29} \\ \hline \end{array}$$

9. Sam is 6 years younger than Emma who is 10 years old. How old is Sam?

Answer: \_\_\_\_\_

10. Helen has 8 cherries.

a. If she eats 2, how many are left? \_\_\_\_\_

b. If she eats 5 more, how many are left now? \_\_\_\_\_

11. Write down the missing number:

a.  $9 - 6 = \square$

b.  $7 - \square = 3$

c.  $\square - 4 = 6$

d.  $2 + 7 - 3 = \square$

e.  $9 - 4 + 5 = \square$

12. a.  $34 + 10 =$  \_\_\_\_\_

b.  $51 + 100 =$  \_\_\_\_\_

c.  $163 + 10 =$  \_\_\_\_\_

d.  $98 + 10 =$  \_\_\_\_\_

e.  $246 + 100 =$  \_\_\_\_\_

f.  $89 - 10 =$  \_\_\_\_\_

g.  $235 - 10 =$  \_\_\_\_\_

h.  $390 - 100 =$  \_\_\_\_\_

i.  $300 - 1 =$  \_\_\_\_\_

13. a.  $6 \times 2 =$  \_\_\_\_\_

b.  $3 \times 4 =$  \_\_\_\_\_

c. 5 lots of 5 = \_\_\_\_\_

d. 6 multiplied by 3 = \_\_\_\_\_

e. How many are eight twos? \_\_\_\_\_

14. There are 4 apples in one box.

How many apples would there be in 4 boxes?

Answer: \_\_\_\_\_

15. Peter has 6 toy cars. David has twice as many.

How many cars has David?

Answer: \_\_\_\_\_

16. There were 3 children in one team.

How many children would there be in 5 teams?

Answer: \_\_\_\_\_

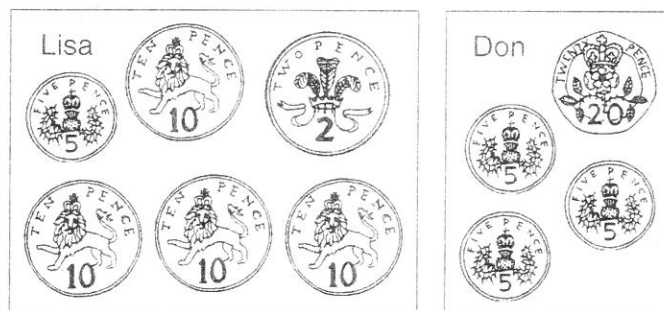
17. Divide 8 by 2 \_\_\_\_\_

18. How many 3s are there in 12? \_\_\_\_\_

19. Share 14 sweets among 2 children. \_\_\_\_\_

20.  $25 \div 5 =$  \_\_\_\_\_

21. Lisa and Don have these coins.



a. How much does Lisa have? \_\_\_\_\_

b. How much does Don have? \_\_\_\_\_

c. How much more does Lisa have than Don? \_\_\_\_\_

d. What is the total value of the ten coins? \_\_\_\_\_

22. How much is:

a. Three 10p coins and two 20p coins?

Answer: \_\_\_\_\_

b. Five 5p coins and three 2p coins?

Answer: \_\_\_\_\_

23. a. Name 3 coins which add up to 17p.

\_\_\_\_\_p      \_\_\_\_\_p      \_\_\_\_\_p

b. Name 3 coins which add up to 31p.

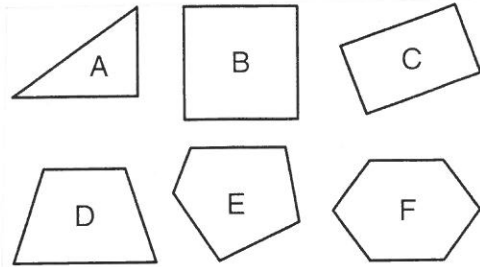
\_\_\_\_\_p      \_\_\_\_\_p      \_\_\_\_\_p

24. A girl spent 62p on a comic. If she paid with a £1 coin, how much change did she get?

Answer: \_\_\_\_\_



25. Look at shapes A-F.

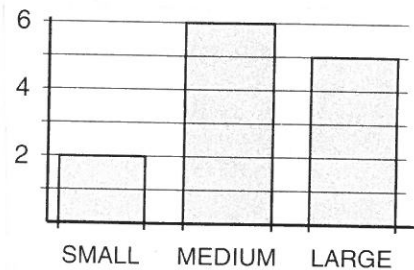


- a. Which is the triangle? \_\_\_\_\_
- b. Which is the square? \_\_\_\_\_
- c. Which is the rectangle? \_\_\_\_\_

26. The block graph shows how many T-shirts Caroline sold yesterday.

How many were

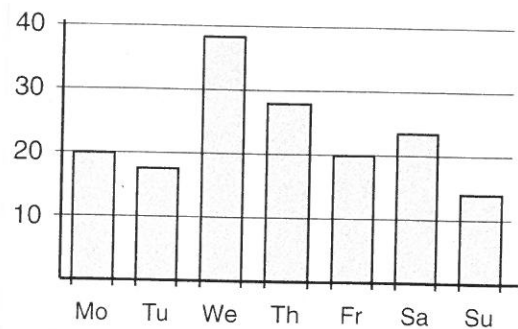
- a. small size \_\_\_\_\_
- b. large size? \_\_\_\_\_



27. The block graph shows how many e-mails Andy received last week.

On which day did he receive

- a. most e-mails \_\_\_\_\_
- b. least e-mails \_\_\_\_\_

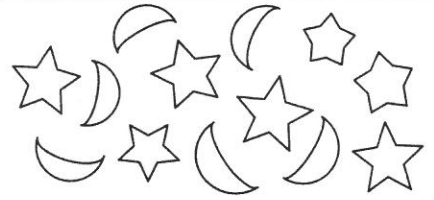


28. Pam keeps a tally of the tomatoes in her greenhouse.

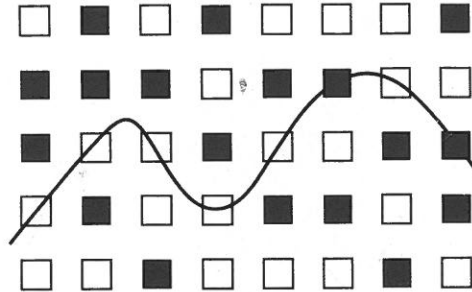
- a. How many red tomatoes are there? \_\_\_\_\_
- b. How many tomatoes are there altogether? \_\_\_\_\_

RED	
GREEN	

29. a. Count the stars \_\_\_\_\_
- b. Are there more moons or more stars? \_\_\_\_\_

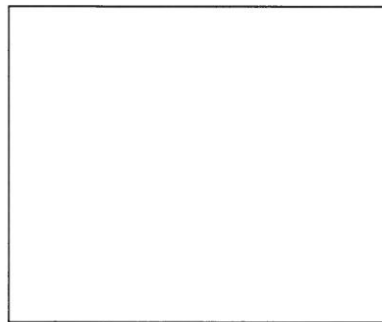


30.



- a. How many whole squares are there below the line? \_\_\_\_\_
- b. How many black squares are there altogether? \_\_\_\_\_

31. Shade in half of this square.



*If you finish before the 45 minutes is up, go back and check your work.*