



**Pangea Maths Competition
2017-2018 1st Round
TEST BOOK**





Pangea Maths Competition 2017-2018 - 1st Round Year 5 - Test Book

PLEASE READ CAREFULLY!

Please read the below instructions carefully before starting the Pangea exam.

1. This Test Book contains 20 questions and a separate answer sheet shall be provided at the beginning of the test.
2. Check the Test Book to ensure that it contains all 20 questions and that no question is missing. In case of a faulty Test Book, you should immediately bring it to the notice of the teacher to obtain a fresh Test Book.
3. Mark your answers in the space provided on the answer sheet by darkening the appropriate circles by **black ball point pen** only.
*Note: Any error in darkening the answer will result in wrong evaluation of the answer sheet. Each question shall be followed by five alternative answers. You are required to identify the one which you feel to be the correct answer and record the answer by darkening the appropriate circle in the answer sheet with **Black Ball Point Pen** only. This will also be mentioned in the instructions given on the front page of the answer sheet. For example, if out of 5 alternatives (A) (B) (C) (D) & (E) given against question No. 15, you identify (B) as the correct answer, you are required to darken the circle (B) only in the answer sheet.*
4. Use this Test Book first to mark your correct answers on and then mark the answers which you believe correct as your final decision on the OMR (Optical Mark Recognition) answer sheet to avoid scratches and double answers.
5. The answer will be treated incorrect if more than one circle is darkened or a circle is darkened improperly. Any other method of marking such as tick mark, cross mark, use of dot, line mark and half-filled circle or marks outside the circle shall not be evaluated.
6. If any question is not attempted, you are required to leave all the circles against that question as blank. Such an answer will be awarded zero mark.
Note: There is no negative marking in this exam so your marks won't get deducted for any wrong answer. In other words, either you leave a question unattempted or mark it wrong it won't matter, in both cases you will be awarded with zero marks.
7. Inner pages or any blank space/page of Test Book may be used for rough work.
8. Calculators are not allowed in the examination.
9. No extra time will be granted after 35 minutes of test time for 20 questions.
10. After completion of the exam you should hand the OMR answer sheets over to your teacher.
Note: The exam results will be available within one month's time following your school's sending the OMR answer sheets to the Pangea. All exam results, whether online or paper based, will be revealed on the same day. Teachers, parents and students can check the results online on Pangea web page by using the provided credentials to login. Parents and students can also download the dedicated Pangea Mobile App by Edubox and login to check the results.

Finalists will be announced on the same day when results are published. Teachers and Parents of the finalists will be invited to register to participate in the final exam in London City Centre and as long as each finalist student comes with a supervising adult they can sit in the second exam and then attend the Award Ceremony to enjoy a wonderful event and hear the three award winning students at each year group.

Q1) There are **735** red pens and **2669 blue pens** in a factory.
How many pens are there altogether?

- a) 3504 b) 2404 c) 3304
d) 3494 e) 3404



Q2) There is some flour on the scale.
How many **grams (g)** of flour is the arrow pointing to?

- a) 50.50g b) 60g c) 70g
d) 80g e) 90g



Q3) There are **205 students** and each student has **25 books**.
How many books are there altogether?

- a) 1025 b) 5125 c) 5025
d) 5225 e) 4125



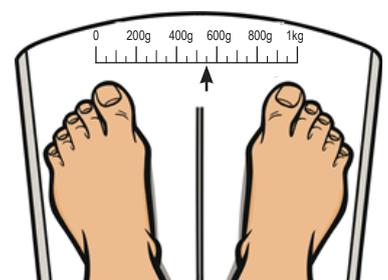
Q4) There are **122 sweets** in a bag. The sweets are equally shared
between Katie and Luna. How many sweets does Katie get?

- a) 51 b) 62 c) 41 d) 52 e) 61



Q5) This diagram shows a reading on a scale.
Choose the correct weight that the arrow is pointing to?

- a) 490g b) 525g c) 500g
d) 550g e) 590g



Q6) A toy factory makes 6242 toys. If 2752 toys are sold, how many toys are left?

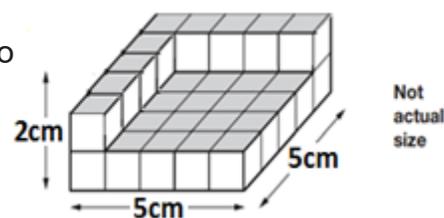
- a) 8994 b) 6510 c) 4490 d) 4510 e) 3490

Q7) There are **47 boxes**. In each box there are **32 cans** of tomatoes. How many cans of tomatoes are there altogether?



- a) 1504 b) 1694 c) 1495 d) 1594 e) 1604

Q8) This shape is made up of wooden centimetre cubes. How many **more** centimetre cubes are needed to make it into a solid cuboid of 2 cm height, 5 cm length and 5 cm width?



- a) 32 b) 24 c) 16
d) 20 e) 12

Q9) Ben has **twenty 5p** coins and **five 20p** coins. How much money does Ben have altogether?

- a) £2.50
b) £1.00
c) £2.00
d) £1.90
e) 25p



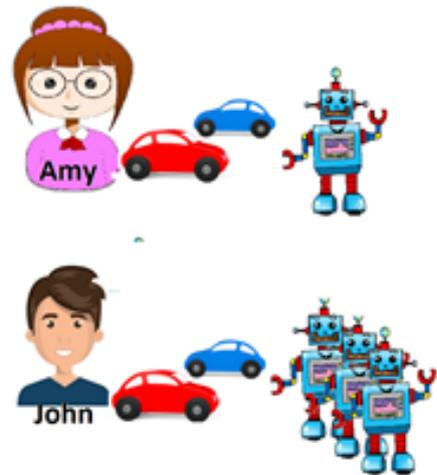
Q10) Here is an arrow pointing right →

The arrow is rotated 180° anti-clockwise. Which direction is the arrow pointing now?

- a) ↗ b) ← c) ↖
 d) → e) ↓

Q11) A shop sells toys.

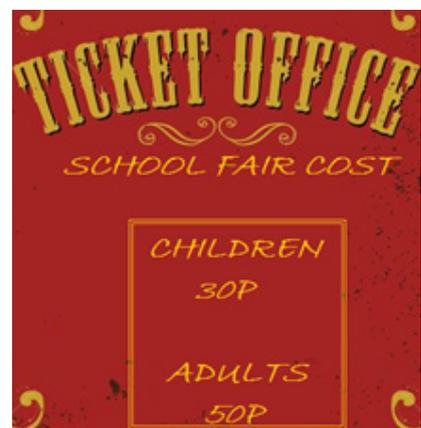
Amy buys **2 cars** and **1 robot**. She pays **£1.25**.
 John buys **2 cars** and **3 robots**. He pays **£2.35**.
 How much does one **robot** cost?



- a) 33p
 b) 54p
 c) 55p
 d) 26p
 e) 27p

Q12) This poster shows the cost of the admission fee of a school fair.

100 adults and **80 children** pay to go the fair.
 How much money do they pay altogether?



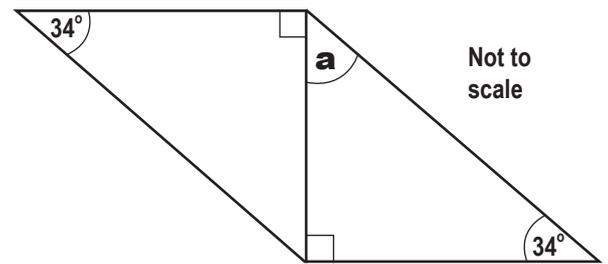
- a) £100
 b) £80
 c) £74
 d) £64
 e) £70

Q13) There are **100 tablets** in a box and each tablet weighs **0.1 grams**.
What is the total weight of the box?

- a) 10.1g b) 1g c) 10g d) 0.1g e) 0.01g

Q14) Here is a parallelogram.
Calculate the size of angle **a**.

- a) 45° b) 90° c) 34°
d) 180° e) 56°



Q15) A washing machine costs **£640** and a customer wants to pay the total amount in two instalments. The first instalment is **55%** of the total amount.
How much is the **second** instalment?

- a) £362
b) £288
c) £320
d) £350
e) £352



Q16) Sam, Lizzy and Mia collect pens. Sam collected 11 pens. Sam and Lizzy collected 24 pens in total. Lizzy and Mia collected 25 pens in total. How many pens did Mia collect?

- a) 12 b) 11 c) 13 d) 10 e) 15

Q17) Work out the missing numbers in the following sequence.

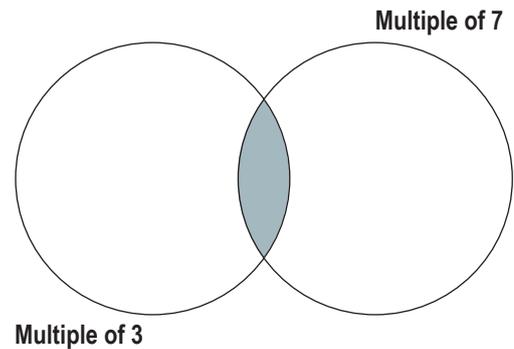
4, 8, 12, _____, 20, _____, 28

- a)** 16 and 24 **b)** 12 and 16 **c)** 14 and 24 **d)** 16 and 22 **e)** 13 and 25

Q18) Here is a Venn diagram.

Which two numbers would go in to the shaded area?

- a)** 12 and 21
b) 14 and 23
c) 21 and 42
d) 10 and 13
e) 30 and 70



Q19) Work out:

$$\frac{(3^2 \times 3^3)}{3^4}$$

- a)** 3
b) 3^2
c) 3^3
d) 3^4
e) 3^9

Q20) Find the value of x :

$$\frac{3x}{12} = 7$$

- a)** 72
b) 84
c) 21
d) 28
e) 33

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