



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





Pangea Maths Competition 2017-2018 - 1st Round Year 4 - Test Book

PLEASE READ CAREFULLY!

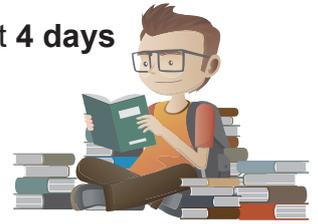
Please read the below instructions carefully before starting the Pangea exam.

- 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) John reads a book in 10 days. He reads **16 pages** every day for the first **4 days** and then **18 pages** every day for the last **6 days**.
How many pages did John read altogether?

- a) 170 pages b) 172 pages c) 174 pages
d) 178 pages e) 180 pages



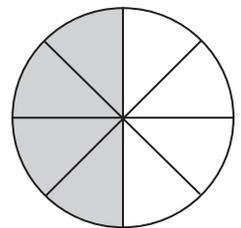
Q2) There are **29,898** students at a university this year. **2,222** more students will be joining next year.
How many students will the university have in total next year?

- a) 31,220 b) 32,220 c) 33,120
d) 32,210 e) 32,120



Q3) Work out **5/10** as a decimal.

- a) 50 b) 0.5 c) 0.05 d) 5 e) 5.10



Q4) In a shop, there are **61** boxes of pencils. In each box, there are **14** pencils.
How many pencils are there altogether?

- a) 844 b) 410 c) 20 d) 75 e) 854



Q5) Sonia has **£8.70** and she wants to buy a toy for **£12.50**.
How much more money does she need to buy the toy?

- a) £0.20 b) £3.20 c) £1.80
d) £2.80 e) £3.80



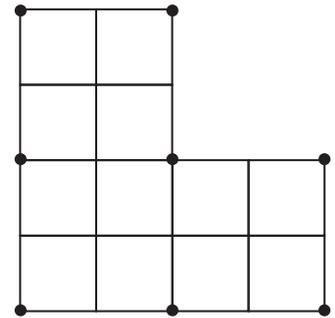
Q6) If **6 children** share **145 sweets** equally between them, how many sweets will be left over?



- a) 0 b) 1 c) 2
d) 3 e) 4

Q7) Find the area of this shape. All the squares are **1cm by 1cm**.

- a) 8cm^2 b) 32cm^2 c) 12cm^2
d) 16cm^2 e) 14cm^2



Q8) In total, **four** books cost **£2.40**. Work out the cost of only one book.

- a) 60p b) 30p c) 100p
d) 70p e) 50p



Q9) In class 4A, there were **14** students, **5** more students joined later. In class 4B, there were **5** students, then **2** students left. How many more students are in class 4A than class 4B now?

- a) 13
b) 14
c) 15
d) 16
e) 22



Q10) Work out:

$$2 \times (14 + 5) - 7 = \square$$

- a) 26
- b) 31
- c) 24
- d) 33
- e) 29

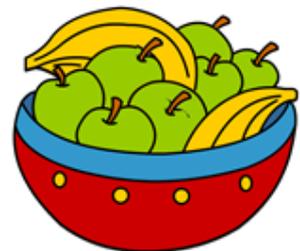
Q11) If $x = 5$, work out:

$$23 - (10 - x) = \square$$

- a) 8
- b) -18
- c) 28
- d) 38
- e) 18

Q12) In a basket there are apples and bananas.
Altogether, there are **30** fruits and **15** of these are apples.
How many bananas are there?

- a) 15
- b) 25
- c) 20
- d) 5
- e) 10



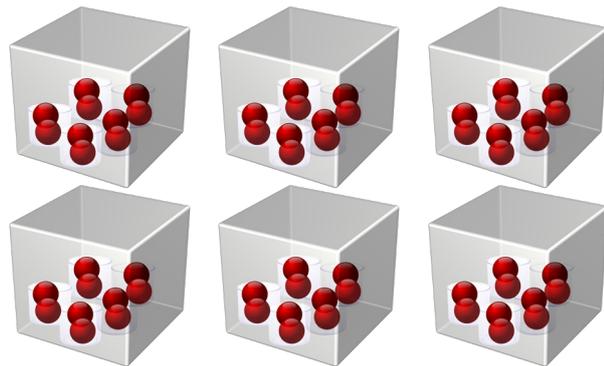
Q13) There are **24** hours in one day and **3,600** seconds in one hour.
How many seconds are there in one day?

- a) 84,600 b) 86,400 c) 12,400
d) 76,400 e) 96,400



Q14) There are **six** boxes. Inside each box, there are **five** cans and inside each *can* there are **two** balls. How many balls are there altogether?

- a) 200
b) 120
c) 30
d) 42
e) 60



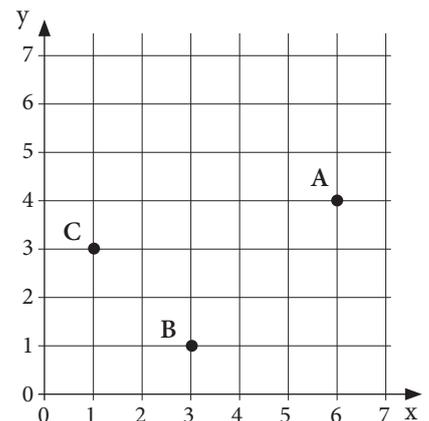
Q15) Mr Smith works for **6 hours** every day from **Monday to Friday**.
He also works **12 hours** on **Saturdays**.
How many hours does Mr Smith work in a week?

- a) 30
b) 40
c) 72
d) 18
e) 42



Q16) A, B and C are three corners of a **rectangle**.
What are the co-ordinates for the fourth corner?

- a) (6,4) b) (4,7) c) (4,6)
d) (7,4) e) (3,6)



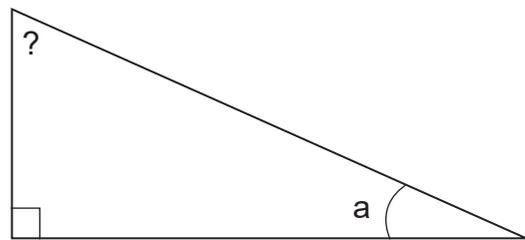
Q17) Work out:

$$2^3 - 2^3 + 2^2$$

- a) 9
- b) 7
- c) 17
- d) 4
- e) 8

Q18) If angle **a** measures 35° , work out the missing angle in this right angle triangle.

- a) 90°
- b) 125°
- c) 55°
- d) 95°
- e) 135°

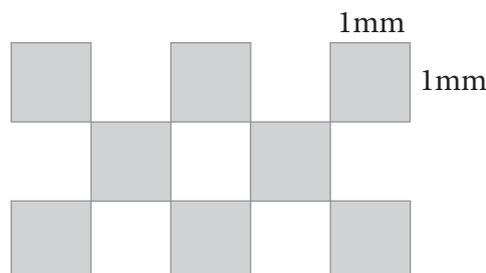


Q19) How many months are there in $3\frac{1}{4}$ years?

- a) 123
- b) 91
- c) 42
- d) 26
- e) 39

Q20) This shaded shape is made up of 8 congruent squares. Each side of the squares measures 1 mm. Find the total area of the shaded shape.

- a) 15mm^2
- b) 32mm^2
- c) 8mm^2
- d) 14mm^2
- e) 16mm^2



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