Solutions

1.   Write down the value of each of the following.

(i) $101 + 59 =$ $\boxed{160}$ (ii) $22 \times 5 =$ $\boxed{110}$ (iii) $12 \cdot 6 \div 3 =$ $\boxed{4 \cdot 2}$

2.   John makes numbers using only the following digits:

$$3, \quad 6, \quad 1, \quad 7.$$

He doesn't use any digit more than once in each number.

(i)   Write down the **smallest** 4-digit number that John could make.

1	3	6	7

(ii)   Write down a 3-digit number that is **bigger than 600** that John could make.

7	1	3

673   671
763   761   *etc*

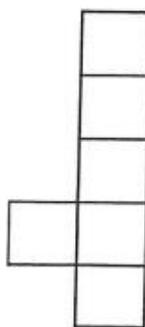**3.**   A bus fare is €1·85 per student.

(a)   Find the fare for four students.   €7.40

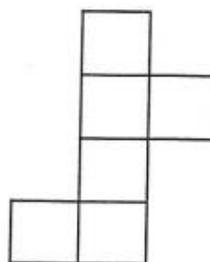Aisling pays the fare for the four students with a €10 note.
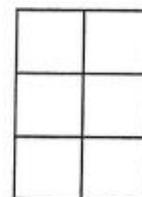
(b)   How much change should she get?   €2.60

4.   Which of the shapes **A**, **B**, or **C** is a correct **net** of a **cube**?
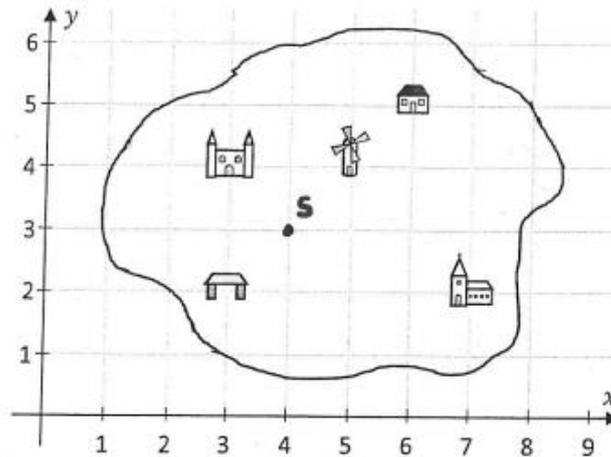
A

(B)

C

5. A map of Treasure Island is shown below, with the following five buildings marked:

shed	castle	church	house	windmill

Map of Treasure Island

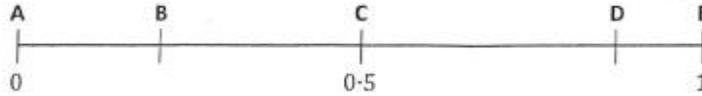**(a)** In the table below, write in the co-ordinates of each building. One has been done already.

Building	Co-ordinates
windmill	(5 , 4)
castle	(3 , 4)
church	(7 , 2)

(b) In the table below, write in which building is at each of the given co-ordinates. One has been done already.

Co-ordinates	Building
(5, 4)	windmill
(3, 2)	shed
(6, 5)	house

(c) Stephen is at the point (4, 3).
Plot this point on the map. **Label** this point **S**.

6. The probability of each of the events A, B, C, D, and E is shown on the probability scale below.

A   B   C   D   E
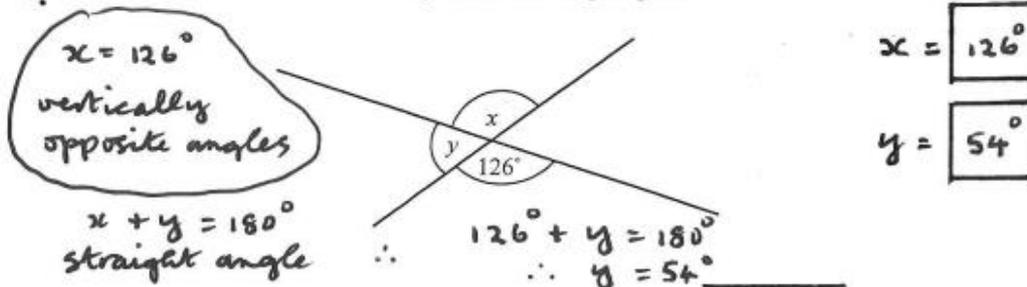
0   0·5   1

(a) Fill in the table below to show which word or phrase best describes how likely each event is to happen. One has already been filled in.

Event (A, B, C, D, or E)	How likely the event is to happen
B	Unlikely
E	Certain
C	Even chance
A	Impossible
D	Very likely

(b) Give an example of an event that has the same probability as that of event C.

[Toss a coin. $P(H) = \frac{1}{2}$] [Roll a die. $P(\text{even number}) = \frac{1}{2}$]

7. Find the value of x and the value of y in the following diagram.

$x = 126°$
vertically opposite angles

$x = \boxed{126°}$

$y = \boxed{54°}$

$x + y = 180°$
straight angle ∴

$126° + y = 180°$
∴ $y = 54°$

8. (a) Evaluate $4x + 6y$, when $x = 3$ and $y = 5$. $\boxed{42}$

$4(3) + 6(5) = 12 + 30 = 42$

(b) Solve $3x + 2 = 17$. $\boxed{x = 5}$

$3x + 2 = 17$
$3x = 15$
$x = 5$
Check : $3(5) + 2 = 15 + 2 = 17$

Dividing by Decimals

Q1. (a) 5 (b) 9 (c) 18.6 (d) 15.2 (e) 327 (f) 164 (g) 32.8

Q2. 162 **Q3.** 7.3

The Tourist Trail

Section A – Complete ANY five questions

1. The first street on the left is Saint Andrew's Street.
2. The Thingmote was on the site of Saint Andrew's Church.
3. The Stock Exchange can be found on Anglesea Street.
4. The theatre close to the Central Bank is the Olympia Theatre.
5. The City Hall was built in 1769 by Thomas Cooley.
6. The old Smock Alley Theatre was on Essex Street.
7. The main courtyard of Dublin Castle is called the Upper Castle Yard.
8. Dublin Castle was first used as a stronghold for the rulers of Ireland.
9. Today, Dublin Castle runs guided tours for the public. It is also used ceremonially by the Government.
10. State Apartments are closed to the public during visits by foreign rulers and summits of the European Community.

Section B

O'Connell Street in the centre of Dublin was once known as Sackville Street. In 1794 the construction of Carlisle Bridge across the Liffey linked the north and south sides of the city. A tall column with a statue of Lord Nelson on top was constructed in 1815 in O'Connell Street. The statue was destroyed by an explosion in 1966 which marked the 50th anniversary of the Easter Rising. There are a number of important statues lining the centre of O'Connell Street. Among the best known statues are those of Daniel O'Connell and Jim Larkin. Jim Larkin was a great trade union leader. At the top of O'Connell Street stands the statue of Charles Stewart Parnell. On that statue is the inscription 'No man has a right to fix the boundary of the march of a nation. No man has a right to say, "Thus far shalt thou go and no further".'

Section C

1. The hotel welcomes children and has special facilities for them.
2. Tea and coffee – making facilities are provided in every room.
3. Gas/electric fires are provided in bedrooms.
4. Dogs accepted by arrangement with management.
5. Special events welcome. Check with proprietor.
6. Evening entertainment at least once a week at 9:00pm.
7. The parking/garage facility is located at the rear of the hotel.
8. The recreation/games room is open during the afternoon.
9. Pensioners' mid-week discount available.
10. Special diets accommodated by arrangement with the chef.

Abair Liom lch. 104 An Aimsir Fháistineach – briathra neamhrialta

1. Beidh mé
2. Cloisfimid
3. Déanfaidh siad
4. Beidh Niamh
5. Cloisfidh sibh
6. An mbeidh tú
7. Déanfaidh sé
8. Beidh tú
9. Déanfaidh sí
10. Ní chloisfidh tú
11. An ndéanfaimid
12. Beidh an fhuaim, cloisfidh Mam