## National 3-Revision for Shape, Space \& Measure

**You may use a calculator**

## Time

1. Convert the following times to 24 hour time :-
a $\quad 6.50 \mathrm{am}$
b 8.15 pm
c $\quad 10.30 \mathrm{pm}$
2. Convert the following times to 12 hour time :-
a 1425
b 0840
c 2345
3. Bob got on a train at 8.15 am and arrived at 11.05 am .

How long did the journey take?
4. An aeroplane took off at 1142 and arrived at 1837 .

How long was the flight?

## Perimeter

5. Calculate the perimeter of each of the following shapes :-
a

b

c


## Area

6. Use your formula to calculate the areas of each of the following :-
a

b

c

d


## Volume

7. Use the formula to calculate the volume of the following cuboids :-
a

b


## Scale

8. A field has been drawn using a scale of $1 \mathrm{~cm}=7 \mathrm{~m}$.

The diagram is shown.
a Calculate the real length of the field.

b Calculate the real width of the width.
9. The map shows a group of islands drawn using a scale of $1 \mathrm{~cm}=10 \mathrm{~km}$.

Calculate the distance from :-
a Alba to Bruan
b Durna to Chloa
c Durna to Alba
d Chloa to Alba

10. Draw the path through the maze following these instructions :-

Go North 4 boxes
Go East 2 boxes
Go South 3 boxes
Go East 3 boxes
Go North 2 boxes
Go West 1 box
Go North 2 boxes and then step out of the maze


## Sequences

1. | No. of spiders (S) | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| No. of legs (L) | 8 |  |  |  |  |  |
2. Complete the table showing the number of wheels.

| No. of trucks $(T)$ | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| No. of wheels (W) | 6 |  |  |  |  |  |

3. Complete the table showing the number of legs.

| No. of starfish (S) | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| No. of legs (L) | 5 |  |  |  |  |  |

## Answers

## Time

1. a 0650
b 2015
c 2230
2. a 2.25 pm
b 8.40am
c 11.45 pm
3. 2 hours 50 minutes
4. An aeroplane took off at 1142 and arrived at 1837.

6 hours 55 minutes

## Perimeter

5. a 32 cm
b 24 cm
c 30 cm

## Area

6. a $30 \mathrm{~cm}^{2}$
b $140 \mathrm{~cm}^{2}$
c $53 \mathrm{~cm}^{2}$
d $81 \mathrm{~cm}^{2}$

## Volume

7. a $120 \mathrm{~cm}^{3}$
b $2240 \mathrm{~cm}^{3}$

## Scale

8. a 35 m
b 14 m .
9. a 20 km
b 25 km
c 50 km
d 45 km
10. 



## Sequences

1. $16,24,32,40,48$
2. $12,18,24,30,36$
3. $10,15,20,25,30$
