# National 3-Revision for Numeracy Unit 

**You may use a calculator**

## Fractions

1. Find :-
a $\frac{3}{4}$ of 36
b $\frac{2}{3}$ of 24
c $\frac{3}{7}$ of 21
d $\frac{4}{5}$ of 35
e $\frac{9}{10}$ of 210
f $\frac{5}{12}$ of 144
g $\frac{7}{8}$ of 648
h $\frac{5}{6}$ of 144
i $\frac{3}{4}$ of 32
2. A coat costing $£ 138$ is reduced by $\frac{1}{3}$.
a How much money is the coat reduced by?
b What is the reduced price of the coat?
3. Aisha has 36 balloons. She sells $\frac{2}{9}$ of them. How many balloons has she got left?
4. Ken has saved $£ 5.60$. Paula has saved $\frac{3}{8}$ more than Ken. How much has Paula saved?
5. 



Look at these diagrams.
a Which diagram has $\frac{6}{15}$ shaded?
b Which diagram has $\frac{3}{12}$ shaded?
c Which diagram has $\frac{1}{2}$ shaded?
d Which diagram has $\frac{1}{4}$ shaded?

## Percentages

6. Find :-
a $25 \%$ of $£ 840$
b $50 \%$ of 121 kg
c $33 \frac{1}{3} \%$ of 135 mm
d $25 \%$ of 108 mm
e $10 \%$ of $£ 5.60$
f $25 \%$ of 300 p
g $50 \%$ of $£ 9.00$
h $66 \frac{2}{3} \%$ of 126 kg
i $75 \%$ of 9600 kg
j $66 \frac{2}{-} \%$ of 1.2 kg
k $75 \%$ of $£ 440$
l $33 \frac{1}{3} \%$ of 360 m

## Money

7. Tony is a delivery man. He gets paid $£ 6.40$ per hour.

If he works for 6 hours each day, what does he get paid for a day?
8. Annette sees this job advertised on an internet site.
How much is the weekly pay for this job?

PAY: $£ 10.36$ per HOUR
GENERAL PRACTICE NURSE
Further info
WEEKLY HOURS: 34

BASE PAY: £13.22/ HOUR OTHER PAY: COMPETITIVE Senior Staff Nurse CONTRACTED HOURS: $33 \mathrm{hrs} / \mathrm{wk}$

Apply Now
10. A single from Newcraighall to Edinburgh Waverley costs $£ 1.32$. What does a return journey cost?
11. The Glass family consist of two adults and two children aged 13 and 9. They are going on a package holiday. The prices for the holiday are as follows:

## Prices:

Adults: $£ 525$ per adult per week
Children (aged 11 and under): $£ 192$ per child per week

What is the total price of the package holiday for one week for the whole family?
12. Sunshine Travel offer a Mediterranean holiday for $£ 420$ per person.

To encourage larger groups they offer the following savings:

- Second person in a group gets a $10 \%$ discount
- Third person in a group gets a $20 \%$ discount
- Fourth person in a group gets a $30 \%$ discount
a What is the total cost of the holiday for a party of four?
b Tantastic Travel charge $£ 400$ per person but the fourth person in a group only pays half price.

How much would the party of four save by travelling with Tantastic Travel instead of Sunshine Travel?

## Time

13. The bus timetable from Glasgow to Dundee is shown below.

| Glasgow | 0950 | 1130 | 1430 |
| :--- | :--- | :--- | :--- |
| Stirling | 1030 | 1210 | 1510 |
| Perth | 1122 | 1302 | 1606 |
| Dundee | 1206 | 1346 | 1650 |

a The last bus leaves Glasgow at 1430 .
What time does it arrive in Dundee?
b Write this in 12 hour time
(Remember to put am or pm )
c How long does it take to travel between Glasgow and Stirling?
d Omar needs to be in Dundee at 1 p.m.
He lives in Stirling.
What bus should he get?

## Measurement

14. What is the reading in cm for each ruler?


15. What is the reading in millilitres for each graduated cylinder?


## Maps and Scales


16. a It takes 8 miles to travel from Haddington to Tranent and 12 miles to travel from Haddington to Musselburgh.

How many miles is it from Tranent to Musselburgh?

## Look at the map above.

b The straight line drawn on the map indicates the distance between Haddington and East Linton.

What is the actual distance of this journey in miles?

## Information Handling

17. The line graph shows the sales of Tony's icecream one week in July.
a How many ice-cream's did Tony sell on
(i) Monday
(ii) Friday
(iii) Saturday
(iv) Sunday
b Tony was ill one day and could not drive his van to work.

What day was Tony ill?

c What day do you think was the hottest day? Explain.
d What was the total number of ice-creams sold that week?
e What was the mean (average) number of ice-creams sold per day over the seven days?
Round your answer to the nearest whole number.
18. Pupils were asked to name their favourite fruit.

| apple | apple | banana | orange | apple | banana | apple | apple |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| banana | orange | apple | banana | pear | grapes | banana | orange |
| apple | banana | grapes | grapes | apple | grapes | grapes | banana |
| pear | apple | banana | banana | grapes | apple | apple | grapes |

a Complete this frequency table, using tally marks to help complete it.
b Now draw and label a neat bar-graph

| Fruit | Tally | Frequency |
| :---: | :---: | :---: |
| apple |  |  |
| orange |  |  |
| banana |  |  |
| grapes |  |  |
| pear |  |  | to help represent this information.

## Answers

1. Find:-
a 27
b 16
c 9
d 28
e 189
f 60
g 567
h 120
i 24
2. a $£ 46$
b $£ 92$
3. 28
4. $£ 7.70$
5. a R
b $P$
c Q
d P
6. a $£ 210$
b 60.5 kg
c 45 mm
d 27 mm
e $£ 0.56$
f 75 p
g $£ 4.50$
h 84 kg
i 7200 kg
j 0.8 kg
k $£ 330$
l 120 m
7. $£ 352.24$
8. $£ 352.24$
9. $£ 436.26$
10. $£ 2.64$
11. $£ 1767$
12. a $£ 1428$
b Tantastic Travel $=£ 1400$, so you would save $£ 28$
13. a 1650
b 4.50 pm
c 40 mins
d 1030
14. $\begin{array}{ll}\text { a } & 83.1 \mathrm{~cm} \\ \text { d } & 75.7 \mathrm{~cm}\end{array}$

$$
\begin{array}{ll}
\text { b } & 57.3 \mathrm{~cm} \\
\mathbf{e} & 79.5 \mathrm{~cm}
\end{array}
$$

15. a 3.4 ml
e 25 ml
$\begin{array}{ll}\text { b } & 230 \mathrm{ml} \\ \text { f } & 60 \mathrm{ml}\end{array}$
c 6.1 ml
g 3.5 ml
d 69 ml
h 8.4 ml
16. a 4 miles
b 5 miles
17. a (i) 28
(ii) 26
(iii) 29
(iv) 27
b Thursday
c Wednesday, most ice cream sales.
d 178
e $\quad 178 \div 7=25$
18. a Apple 11, Orange 3, Banana 9, Grapes 7, Pear 2
b See your Teacher.
