

Number 1F Assessment

THE ANSWERS

Foundation Level



1 - 29



30 - 39

Clip	Grade	Title of clip	Question(s)	Marked out of	Score	%
1.....1.....	1.....	Place Value.....	1 - 3	3	—	—
2.....1.....	1.....	Ordering Integers ..	4	2	—	—
3.....1.....	1.....	Ordering Decimals ..	5	2	—	—
4.....1.....	1.....	Reading Scales.....	6	1	—	—
5.....1.....	1.....	Simple Mathematical Notation	7 - 8	2	—	—
6.....1.....	1.....	Interpreting Real-Life Tables	9 - 11	10	—	—
17.....2.....	2.....	Adding Integers and Decimals	12a	2	—	—
18.....2.....	2.....	Subtracting Integers and Decimals.....	12b	2	—	—
19.....2.....	2.....	Multiplying Integers	13 - 14	6	—	—
20.....2.....	2.....	Dividing Integers	15 - 17	6	—	—
21.....2.....	2.....	Inverse Operations	18	2	—	—
22.....2.....	2.....	Money Questions ..	19 - 20, 39	7	—	—
23.....2.....	2.....	Negatives in Real Life	21 - 22	2	—	—
24.....2.....	2.....	Introduction to Fractions	23 - 25	3	—	—
25.....2.....	2.....	Equivalent Fractions	26	2	—	—
26.....2.....	2.....	Simplifying Fractions	27	2	—	—
27.....2.....	2.....	Half-Way Values	28	3	—	—
28.....2.....	2.....	Factors, Multiples and Primes	30 - 34	8	—	—
29.....2.....	2.....	Introduction to Powers/Indices	35	3	—	—
30.....2.....	2.....	Multiplying and Dividing by Powers of 10....	29	5	—	—
31.....2.....	2.....	Rounding to the Nearest 10, 100, 1000....	36 - 37	3	—	—
32.....2.....	2.....	Rounding to Decimal Places	38	4	—	—

Out of 80

TOTAL
SCORE _____

**Final
Percentage**

%

- 1) Write down the value of the 6 in the number 6781000

six million 1

- 2) Write the number 4.5 million in figures.

4 500 000 1

- 3) What is the value of the digit 9 in 16.2193
Circle the correct answer.

$\frac{9}{10}$ $\frac{9}{100}$ $\frac{9}{1000}$ $\frac{9}{10000}$ $\frac{9}{100000}$ 1

- 4) Put these numbers in order, smallest to largest

7, -4, 9, -14, -1, 3, 12

-14, -4, -1, 3, 7, 9, 12 2

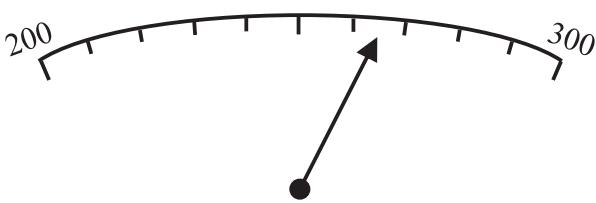
- 5) Put these numbers in order, smallest to largest

6.03, 6.2, 6.999, 6.0099, 5.99

5.99, 6.0099, 6.03, 6.2, 6.999 2

- 6) What number is the arrow pointing to?

265 1



- 7) If $x < 7$, circle the numbers below that it is possible for x to be.

9, 8, 7, 6, 5 1

- 8) To ride on the swans at Dalton Towers your weight must be less than or equal to 40kg.
Place the correct sign between 'weight' and 40kg.

Weight \leqslant 40kg 1

- 9) Calculate the difference in hours and minutes between these times:

- a) 1345 and 1550

2 hrs 5 mins 2

- b) 11.10 pm and 2.35 am

3 hrs 25 mins 2

- 10) Jim has to go to a meeting which should begin at 3 pm.

Jim gets to the meeting at 2.45 pm.

- a) How long does Jim have to wait until 3 pm?

15 mins 1

The 3 pm meeting starts 10 minutes late and lasts 55 minutes.

- b) Work out the time the meeting finishes.

4.05 pm 1

Jim then has to go to a 5 pm meeting.

It will take Jim 75 minutes to get to this meeting.

- c) Can Jim get to this meeting by 5 pm?
You must show how you get your answer. 2

No.

From 4.05 pm to 5 pm is 55 mins but it takes him 75 mins to get there which means he will be 20 mins late.

- 11) Andy drives from New York to Miami and then from Miami to Los Angeles.
Jo drives directly from New York to Los Angeles.

San Francisco		New York	Miami	Los Angeles	Chicago
4827		2132			
4990					
668		4541	4375		
3493		1352	2183	3366	

How many miles further does Andy drive?

1966 2

- 12) Here is a price list in a cake shop.

Currant Bun	£0.85
Iced Bun	£0.45
Blackcurrant Pie	£1.25
Strawberry Pie	£1.60

- a) Work out the cost of 2 Currant Buns,
1 Iced Bun, 1 Blackcurrant Pie and
2 Strawberry Pies.

Total cost £6.60 2

- b) How much change is there from a £20 note?

£13.40 2

- 13) Work out 13×24

312

3

- 14) Terry wants to send a parcel which weighs 12kg.

Acme Delivery £19 plus 50p for each kg more than 5 kg.

Pyramid Delivery £16 plus 70p for each kg more than 5 kg.

Work out whether it is cheaper by Acme or by Pyramid and say how much cheaper it is.

Cheapest is Pyramid 1

It is cheaper by £ £1.60 2

- 15) Work out $204 \div 6$

34 2

- 16) Work out $384 \div 12$

32 2

- 17) If a notebook costs 86p, how many can be bought for £35.26?

41 2

- 18) a) What is the inverse operation of + ?

- 1

- b) What is the inverse operation of ÷ ?

× 1

- 19) Bill has £3.51 and Ben has £1.83

Bill gives Ben some money so that they both have the same amount.

How much does Bill give Ben? 84p 2

- 20) A bottle and a top cost £1.10.

The bottle costs £1 more than the top.

How much is the bottle? £1.05 2

- 21) At 5 am the temperature is -3°C .

By 9 am the temperature has risen by 10 degrees.

What is the temperature at 9 am? 7°C 1

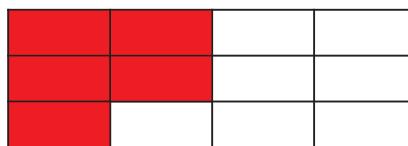
- 22) Circle the correct statement:

$-7 > -3$ $-7 > 3$ $\text{-}3 > -7$ $-3 > 7$ 1

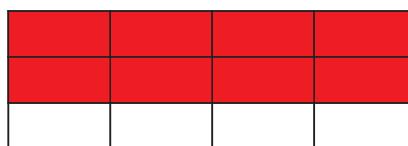
- 23) What fraction of the shape is shaded? $\frac{7}{10}$ 1



- 24) Shade in $\frac{5}{12}$ of this grid. 1



- 25) Shade in $\frac{2}{3}$ of this grid. 1



- 26) Circle all the fractions which are equivalent to $\frac{1}{3}$

$\frac{3}{10}$ $\frac{5}{15}$ $\frac{6}{19}$ $\frac{4}{12}$ $\frac{60}{180}$ 2

- 27) a) Write $\frac{8}{12}$ in its simplest form $\frac{2}{3}$ 1

- b) Write $\frac{15}{40}$ in its simplest form $\frac{3}{8}$ 1

- 28) a) Which number is in the middle of 2 and 12?

7 1

- b) Which number is in the middle of -7 and 15?

4 1

- c) 8 is in the middle of 3 and which other number?

13 1

- 29) Work out the answers to the following:

a) 2.8×100 280 1

b) 0.3×10 3 1

c) $\text{£}2.30 \times 1000$ £2300 1

d) $14 \div 10$ 1.4 1

e) $2.5 \div 1000$ 0.0025 1



A calculator can be used for all questions on this page.

- 30) Write down all the factors of 20: 1, 2, 4, 5, 10, 20 2
- 31) Write down the first 4 multiples of 6: 6, 12, 18, 24 2
- 32) Write down the first 4 prime numbers: 2, 3, 5, 7 2
- 33) What is the first prime number after 50? 53 1
- 34) Write down the lowest number that is a multiple of both 6 and 8: 24 1
- 35) a) Write $3 \times 3 \times 3 \times 3$ using index notation: 3^4 1
b) Express $2^5 \times 2^3$ as a single power of 2: 2^8 1
c) Express $4^7 \div 4^2$ as a single power of 4: 4^5 1
- 36) a) Round 253 to the nearest 10: 250 1
b) Round 2186 to the nearest 100: 2200 1
- 37) If a piece of fish weighs 350g to the nearest 10g, what is the least weight it could be? 345 g 1
- 38) Use a calculator to work out the answer to $23 \div 17$.
a) Give your answer to 1 decimal place: 1.4 2
b) Give your answer to 2 decimal places: 1.35 2
- 39) The distance from Alton to Crimley is 12 miles.
Sue, Tim, Narinder and Jo can either travel by bus or taxi.
Bus tickets are £3.50 each.
The total cost of a taxi is £3.60 plus £1.90 per mile.
Which is the cheapest way to travel and by how much is it the cheapest?
You must show your answers and your working in this box.



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$$4 \times £3.50 = £14 \text{ by bus.}$$

$$£3.60 + 12 \times £1.90 = £26.40 \text{ by taxi.}$$

Bus is cheaper by £12.40