Number 1H Assessment

Higher Level 1-38 39-44





Clip	Grade	Title of clip	Question(s)	Marked out of	Score	%
29	2	. Introduction to Powers/Indices	1	3		
32	2	. Rounding to Decimal Places	42	2		
		. Multiplying Decimals		8		
67	3	Dividing Decimals	5 - 6	6		
68	3	Four Rules of Negatives	7 - 8	8		
		. Comparing Fractions		2		
71	3	. Adding and Subtracting Fractions	10 - 11	4		
		. Finding a Fraction of an Amount		1		
73	3	. Multiplying Fractions	13 - 14	3		
74	3	Dividing Fractions	15	2		
75	3	. BODMAS/BIDMAS	16	4		
76	3	. Reciprocals	17	2		
		. Calculator Questions		4		
78	3	Product of Primes	18	2		
79	3	. Highest Common Factor (HCF)	19	2		
80	3	. Lowest Common Multiple (LCM)	20 - 21	4		
		. Squares, Cubes and Roots		1		
		. Working with Indices		1		
		Standard Form		10		
84	3	. Decimals and Fractions	27 - 28	3		
85	3	. Fractions, Percentages, Decimals	29	2		
		. Percentage of an Amount (Calc.)		2		
		. Percentage of an Amount (Non-Calc.)		2		
		. Change to a Percentage (Calc.)		2		
		. Change to a Percentage (Non-Calc.)		2		
		. Rounding to Significant Figures		3		
		Estimating Answers		2		
		. Using Place Value		3		
		. Index Notation		6		
		Introduction to Bounds		4		
		Out of 100 TOTAL SCORE	- , · · ·			

Final % Percentage

1) a) Write $3 \times 3 \times 3 \times 3$ using index notation: _______1

b) Express $2^5 \times 2^3$ as a single power of 2 ______ 1

c) Express $4^7 \div 4^2$ as a single power of 4 _______1

2) Work out the answers to

a) 0.3 × 0.4 ______1

b) 0.4 × 0.2 ______1

3) Work out the answers to the following, showing your working

a) 2.7 × 4.1

b) 12.3 × 0.36

4) Tom has a job that pays £9.32 per hour. He worked for 40 hours last week.

How much did he earn? ______

5) Work out

a) 12 ÷ 0.3 _____ 2

6) If a textbook costs £7.80, how many can be bought for £101.40?

_____books can be bought.

- Work out 7)

Work out

a) 5 - 8 =______1

a) $5 \times (-3) =$ _____1 b) $(-7) \times (-2) =$ ______1

b) -7 - 3 =_____1

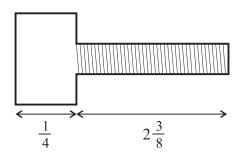
c) $(-86) \div (-2) = _____$

d) (-9) - (-3) = ______1

- d) (-36) ÷ 12 = ______1
- 9) Put the following fractions in order of size, smallest to largest.
 - $\frac{2}{3}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{5}{8}$ $\frac{13}{12}$

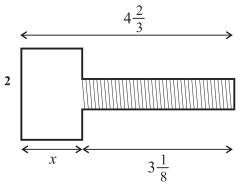
The bolt has given lengths measured in inches. 10)

What is the total length of the bolt? _____ inches. 2



The bolt has given lengths measured in inches.

What is the length (x) of the head of the bolt? _____ inches. 2



- 12) Work out $\frac{4}{5}$ of 150 _______1
- A water container is $\frac{1}{8}$ full.

35 litres of water are poured into the container.

The container is now $\frac{3}{4}$ full.

- 15) Calculate
 - a) $\frac{2}{3} \div \frac{3}{4}$ _____ 1 b) $2\frac{4}{5} \div \frac{2}{3}$ _____ 1

16)	Work	out

a)
$$2 + 3 \times 4 =$$

a)
$$2+3\times 4=$$
 _____ 1 b) $5\times 6+3\times 2=$ _____ 1

c)
$$3 \times 4^2 = _{_{_{_{_{_{1}}}}}}$$

b) Find the reciprocal of
$$\frac{4}{5}$$
 ______ 1

22) Work out the value of
$$5^2 + \sqrt[3]{27}$$
 ______ 1

23) Work out the value of
$$2^3 + 3^4 + 10^5$$

Write the following as normal numbers

26) Work out
$$(1.8 \times 10^5) \div (9 \times 10^2)$$

28) Change
$$\frac{5}{8}$$
 to a decimal. _____ 2

29) Write these numbers in order of size, smallest to largest.
$$52\% \frac{4}{5} = 0.47 \frac{4}{10} = 60\%$$

30) Find 35% of £80

31) Mandy scored 30 out of 80 in a test.

What was her score as a percentage? _____

32) $236 \times 148 = 34928$

- a) Round this answer to 2 significant figures. ______
- b) Round this answer to 1 significant figure. _______

33) $64 \div 238 = 0.268907563 \dots$

Round this answer to 2 significant figures. _______1

34) Estimate the answer to $\frac{774 \times 219}{384}$

_____2

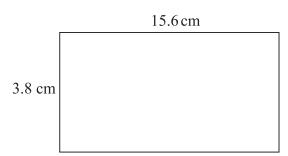
35) Using the information that $6.8 \times 24 = 163.2$, write down the value of

- a) 680 × 24
- b) 68 × 0.24 ______ 1
- c) 16.32 ÷ 68 _____

36) Simplify the following, leaving your answers in index form.

- a) $3^4 \times 3^5 \times 3 =$ _____ b) $\frac{5^7 \times 5^2}{5 \times 5^4} =$ ____ 2 c) $(2^4)^3 =$ ____ 2
- 37) What is the value of 8° ? ______1

38) The length of a rectangle is 15.6 cm correct to 1 decimal place. The width of a rectangle is 3.8 cm correct to 1 decimal place.





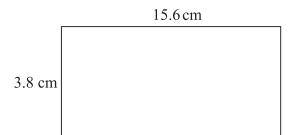
can be used for all questions on this page.

- giving your answer to 3 significant figures.

- - giving your answer to 3 significant figures.
- 41) Work out 72% of £483 _____
- Use a calculator to work out the answer to $23 \div 17$. 42)
 - a) Give your answer to 1 decimal place:
 - b) Give your answer to 2 decimal places:
- 43) Change 46 out of 73 to a percentage.

Give your answer correct to 1 decimal place.

The length of a rectangle is 15.6 cm correct to 1 decimal place. The width of a rectangle is 3.8 cm correct to 1 decimal place.



Calculate the upper bound for the area of the rectangle.