

Assessment Cover Sheet



Subject:	Additional Mathematics		Teacher's Name	AKHLAK HOSSAIN	
Topic	Algebra		IV's Name	Nazib – UI – Kaysar Uchchhas	
Year/Class	Standard IX Cambridge		IV Date	29-03-2020	
Assessment Type	Worksheet		Obtained Mark		
Awarding Body	CAIE				
Assessment Date		Time		Duration	1 hour 30 mins
Students Name					
Assessment Decision					
Feedback Received	Y/N	Parents Signature			
Parents General Comments					

Questions

Calculate the value of each expression given the value of the variables.

	<i>SOLVE</i>	<i>WORKING</i>	<i>ANSWER</i>
1)	$4a=20$		$a=5$
2)	$b-7=8$		$b=$
3)	$2c-1=11$		$c=$
4)	$10=d+6$		$d=$
5)	$18=3e$		$e=$
6)	$f-7=4+4$		$f=$
7)	$2g=7-5$		$g=$
8)	$16-2h=0$		$h=$
9)	$2(i+1)=18$		$i=$
10)	$3(j-1)=21$		$j=$
11)	$5(k+2)=45$		$k=$
12)	$4(l-6)=16$		$l=$
13)	$2m-5=11$		$m=$
14)	$\frac{1}{2}n+1=8$		$n=$
15)	$20+o = 4$		$o=$
16)	$p+7=3$		$p=$
17)	$q/6=5$		$q=$
18)	$4(r+2)=24$		$r=$
19)	$20=5(s-3)$		$s=$
20)	$\frac{1}{2}t +7=13$		$t=$
21)	$u^2=36$		$u=$
22)	$v^2=100$		$v=$
23)	$w=\sqrt{25}$		$w=$
24)	$3x=20-8$		$x=$
25)	$18-4y=2$		$y=$

Notes:

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Solve. Write the answer in the simplest form.

1. $5h = 15$

2. $h \div \frac{9}{6} = \frac{2}{3}$

3. $x \div 5\frac{2}{6} = 4$

4. $18 \div x = 15$

5. $\frac{11}{7} \div x = \frac{77}{49}$

6. $\frac{2}{10} \div h = \frac{11}{20}$

7. $3\frac{4}{9}c = 29\frac{4}{2}$

8. $\frac{2}{16}q = \frac{1}{4}$

9. $\frac{25}{9} \div x = \frac{25}{18}$

10. $\frac{5}{3} \div w = \frac{25}{24}$

11. $\frac{6}{7} \div t = \frac{18}{14}$

12. $6\frac{2}{3} \div w = 3\frac{3}{9}$

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Write the algebraic expression for each word problem.

See if you can spot the trick problem that doesn't need algebra!

1)	A chicken weighs t lb. It needs to be cooked for 20 minutes per lb plus an extra 15 minutes. What is the total cooking time?	=
2)	I put £100 in a savings account at $v\%$ yearly interest. How much money will I have in my account at the end of a year?	=
3)	I get £ m for my birthday. I spend half the money, but get given an extra £50. How much money do I have now?	=
4)	A calculator costs £ d . A schools buys 90 calculators, and gets a £100 discount for bulk purchasing. How much did the school spend?	=
5)	A square has sides of t cm. What is the area of the square?	=
6)	A rectangle measures w inches by h inches. What is the perimeter of the rectangle?	=
7)	I have £ g . I spend half my money on a console game and £20 on a console controller. How much money do I have left?	=
8)	I need to buy p pencils. I buy 4 packs of 7 pencils, but I still need a few more. How many pencils did I buy?	=
9)	A car travels 120 miles in h hours. What is the average speed in miles per hour?	=

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