High School

Mathematics Test 2014 Non Calculator **Decimals** Year 7 Section Skills and Knowledge Assessed: Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers (ACMNA128) Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies Name (ACMNA129) Multiply and divide decimals by powers of 10 (ACMNA130) Round decimals to a specified number of decimal places (ACMNA156) Multiply decimals by other decimals. (Extension) Answer all questions in the spaces provided on this test paper by: Writing the answer in the box provided. Shading in the bubble for the correct answer from the four choices provided. Show any working out on the test paper. Calculators are **not** allowed. 1. Which group below has 0.75 of the dots shaded? 0000 Which decimal is equivalent to $\frac{4}{5}$? 2. 0.4 $\Box 0.45$ \square 0.8 \square 4.5

6.	Add the decimals 2.5, 0.25 and 0.9

7.
$$4.8 - 1.5 = ?$$

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		ı

8.
$$0.68 - 0.27 = ?$$

$$0.68 - 0.27 = ?$$

0.41

9.
$$4.5 \times 6 = ?$$

10.
$$0.348 \times 5 = ?$$

11. Round 37.2579 correct to the nearest tenth

12. What is the value of the 6 digit in the number 35.267?

\Box (Jnits
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Tenth

$$\square$$
 Thousandths

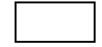
13. $0.258 \times 100 = ?$

0.0258

14. What is the sum of 4.69, 0.135, 0.07 and 2.75?



5.4 - 2.36 = ?15.



16. 27.8 - 2.625 = ?

	1.55
$\overline{}$	1.00

26.25

17. Add 34.29 to 125.45.

1	
1	

18. 3.6 is taken from 7.25. What is the result?

19. $8.34 \times 6 = ?$

	1 20
1 1	1 49

20. $0.00738 \times 1000 = ?$

21. Kayla buys 8 memory sticks which each have a capacity of 6.5 GB. What is the total capacity of the 8 sticks?

22. $16.52 \div 7 = ?$

$\overline{}$	
1 1	0.236
-	0.230

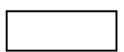
23. $182.58 \div 100 = ?$

24. What is the product of 2.54 and 8?

When 8.5 is divided by 5, the result is: 25.

-		0.	1	7

26. Donald cut a 6.8 metre length of timber into 4 equal length pieces. How long was each piece? (Give your answer as a decimal.)





27. The number 4.35 could be expressed in expanded notation as:

$$\Box$$
 4 × $\frac{1}{10}$ + 3 ×

High School Mathematics Test 2014

Year 7

Decimals

Calculator Allowed
Short Answer
Section

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				Name		
N Si	riting the answer in or hading in the bubble	ces provided on this on the box provided. on the correct ans on the correct ans	wer from the four	choices prov	vided.	
-						
1.	Mark the position o	f 1.6 on the number	line below.			
	<+ + + 0	+ + + + + +	2	+ + + +	4	>
2.	Shade a section wh rectangle.	ich is 0.7 of the area	of this			
3.	backpack. There we 0.4 kg, 1.9kg, and 0	lf weighs 0.85 kg, w	eighed 2.5 kg,			
4.	together to make a of one piece is 12.6	eld two straight piece total length of 25.5 r 5 m. of the second piece?	netres. The length			
5.	What is 53.4782, w	hen rounded correct	to two decimal pla	ices?		
	53	53.5	53.47		53.48	

6.	Polly bought 6.25 litres of putty for an art project. Each litre of the putty weighs 0.6 kg. What does all of the putty weigh?
7.	Andrew buys 0.6 kg of potatoes which costs him \$1.65. What is the cost per kilogram of the potatoes?
8.	In a dancing competition, each couple are given a score out of 10, and then their average score is found by adding their scores and dividing by the number of scores. Lydia and Kegan have the five scores below. Work out their average score. 6.5, 8.2, 9.4, 8.9, 7.8.
9.	When running, Lara's average stride length is 3.2 metres. How many strides does she take in a 100 metre foot race?
10.	Arrange the numbers below in ascending order.
	0.64, 0.06, 0.46, 6.4, 0.046, 4.6
11.	A number is divided by a decimal between 0.5 and 1. Which is true? The answer will always be smaller than the original number. The answer will always be the same as the original number. The answer will always be bigger than the original number. The answer could be smaller or larger than the original number.
12.	Which is not true?
	$\square 0.85 > 0.7$ $\square 0.7 < 0.75$
	$\bigcap 0.54 < 0.64$ $\bigcap 0.05 > 0.2$

High School Mathematics Test 2014 Decimals ANSWERS

Non Calculator Section (1 mark each)

Q no	
1.	$0.75 = \frac{3}{4}$, so the first diagram has $\frac{3}{4}$ shaded. (1st Answer)
2.	$\frac{4}{5} = 4 \div 5 = 5)4.0 = 0.8$ (3rd Answer)
3.	$0.12 = \frac{12}{100} = \frac{3}{25}$ (2 nd Answer)
4.	0.7
5.	0.8 + 1.6 = 2.4 (3rd Answer)
6.	2.5 + 0.25 + 0.9 = 3.65
7.	4.8 - 1.5 = 3.3
8.	0.68 - 0.27 = 0.41 (1st Answer)
9.	$4.5 \times 6 = 27$
10.	$0.348 \times 5 = 1.74$
11.	37.3
12.	Hundredths (3 rd Answer)
13.	$0.258 \times 100 = 25.8$ (3 rd Answer)
14.	4.69 + 0.135 + 0.07 + 2.75 = 7.645
15.	5.4 - 2.36 = 3.04
16.	27.8 - 2.625 = 25.175 (3 rd Answer)
17.	34.29 + 125.45 = 159.74
18.	7.25 - 3.6 = 3.65
19.	$8.34 \times 6 = 50.04$ (4 th Answer)
20.	$0.007\ 38\ \times\ 1\ 000\ =\ 7.38$

Decimals Test 2014

21.	$8 \times 6.5 = 52 \; GB$	
22.	$16.52 \div 7 = 2.36$	(3 rd Answer)
23.	$182.58 \div 100 = 1.8258$	(2 nd Answer)
24.	$2.54 \times 8 = 20.32$	
25.	$8.5 \div 5 = 1.7$	(3 rd Answer)
26.	$6.8 \div 4 = 1.7 m$	
27.	$4 \times 1 + 3 \times \frac{1}{10} + 5 \times \frac{1}{100}$	(1st Answer)
28.	$6 \times 0.15 = 0.9 m^2$	
29.	$4.37 \times 0.03 = 0.1311$	(2 nd Answer)
30.	$1.24 \times 0.8 = 0.992$	

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Calculator Allowed Short Answer Section (1 mark each)

