NAPLAN NATIONAL ASSESSMENT PROGRAM Literacy and Numeracy

AUSTRALIAN CURRICULUM, ASSESSMENT AND REPORTING AUTHORITY

NUMERACY CALCULATOR ALLOWED



YEAR 7 2016

40 min

SESSION 1

Time available for students to complete test: 40 minutes

Use 2B or HB pencil only

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-	Grace is 16 years old.									
1	Mark is 5 years more than twice Grace's age.									
	How old is Mark?									
	42	82	23	37						
	0	\bigcirc	\bigcirc	\bigcirc						
2	When keeping horses, 1 hectare of land is recommended for every 2 horses.									
2	How many hectares of land would be needed for 8 horses?									
	4	6	10	16						
	0	\bigcirc	0	\bigcirc						
3	Nathan is making a pattern with black and white tiles.									
J	Design 1									
	Design 2									
	Design 3									
	Design 4									
	If the pattern continues, how many black tiles will there be in Design 10?									
	3	15	30	33						
	\bigcirc	\bigcirc	\bigcirc	\bigcirc						
4	 Jane makes necklaces using beads. She has 345 beads in 23 different colours. She has the same number of beads in each colour. How many beads does Jane have of each colour? 									
		beads								
© ACARA		-								





11	This tile has equal length sides.									
	3.5 cmFour of the tiles joined together make a larger shape as shown.Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2"Colspan="2">Colspan="2"									
	42 cm	49 cm	56 ci	m 70) cm					
	\bigcirc	\bigcirc	\bigcirc	(\supset					
12	 Numbers such as 4, 16, 64, 81 and 100 are called square numbers. Select the statement that is always true about square numbers. A square number multiplied by a square number is a square number divided by a square number is a square number. The sum of a square number and a square number is a square num The difference between a square number and a square number is a square number is a square number. 									
13	Ethan plans to s His plan is show	ns to steadily increase the time he exercises each day. s shown below.								
		Monday	Tuesday	Wednesday	Thursday					
	Exercise time	20 minutes	30 minutes	45 minutes	67.5 minutes					
	Which statemen									
	Ethan plans to exercise:10 times longer than the previous day.									
	 10 minutes longer than the previous day. 									
	 1.5 times longer than the previous day. 1.5 minutes longer than the previous day. 									
	 1.5 minutes longer than the previous day. 									







A jam recipe uses 2 cups of sugar for every 3 cups of fruit. 21 Select the correct combination of sugar and fruit for this recipe. $\bigcirc \frac{1}{2}$ cup of sugar, $\frac{1}{3}$ cup of fruit ○ 1 cup of sugar, 1.5 cups of fruit 1.5 cups of sugar, 2.5 cups of fruit \bigcirc 4 cups of sugar, 5 cups of fruit \bigcirc A class is making crystals using sugar-water and string. 22 Each student needs 0.25 litres of sugar-water for the experiment. How many millilitres of sugar-water does each student need? millilitres The table below lists the original price and the amount of discount of 23 the same shirt at four different shops. SHIRT SALE Shop **Original price** Discount А \$20 25% 1 В \$24 3 С \$30 30% D \$18 \$2 off Which shop has the lowest sale price for the shirt? С В D А \frown \bigcirc \bigcirc \bigcirc







