# IEA - Data Enhancement Project

Questionnaire printing

Study: SC2

Population: 3

Instrument: STQ\_3

Student Math Test

Population 3

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1	82 -54	
	The ans	wer to this subtraction is
		2828 2832
	С	3228
		3232 3838
 P3Q	 01	
2	What is	the square root of 12 x 75?
	А	6.25
	В С	30 87
	D	87 625
	E	900
P3Q	02	
3	The exp	$5$ $4$ $3$ ression $6 \times 10 + 2 \times 10 + 7 \times 10 + 9$ is equal to
		6 279
	B C	62 709 602 709
	D	627 009 6 020 709
P3Q	03	
4		mes a certain number is 24 more than the number. the number?
	А	5
	B C	6 8
	D	12
	E	18
 P3Q	 ∩ 4	

5 0.00046 is equal to

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### P3Q05

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6 There are 227 students in a school. Every student in the school belongs to either the music club or the sports club, and some students belong to both clubs. The music club has 120 members, and 36 of these are also

members of the sports club. What is the total membership of the sports club?

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- A 84
- в 107
- C 120
- D 143
- E 191

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# P3Q06

7 Which one of the following is correct?

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P3007

75

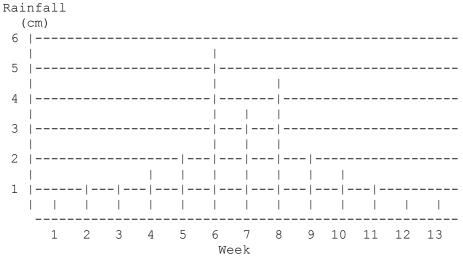
a - b

15

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## P3Q08

9 In the graph below rainfall in cm (centimetres) is plotted for 13 weeks.



The average weekly rainfall during the period is approximately

- A 1 cm
- E 2 cm
- C 3 cm
- D 4 cm
- E 5 cm

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#### P3009

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10 Frank decided to make a bar graph to show the maximum temperature on four days. He made this table to help him draw the graph.

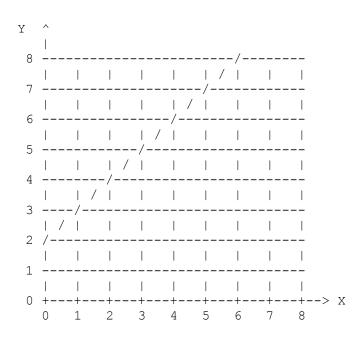
				m <sup>1</sup>
Day	Mon 	Tue 	Wed 	Thur
Maximum temperature	16 øC	18 øC	21 øC	24 øC
Height of the bar	8 cm	9 cm		12 cm

What should be the height of the bar for Wednesday?

- A 9.5 cm
- B 10 cm
- C 10.5 cm
- D 21 cm
- E 42 cm

-----P3Q10

11



The equation of the graph shown above is

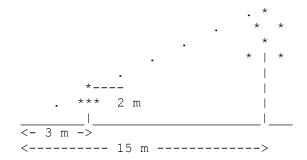
- A y = x + 1
- B y = x + 2
- C y = 2x + 1
- D y = 2x + 2
- y = 3x 2

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12	What number pattern?	nat number should go in the space to complete the following number attern?				
	2, 4,	, 48, 240				
	A B C D E	8 12 16 24 32				
P3Q	12					
13	How much is 2 cent  A B C	lastic cube with edges 1 centimetre long weighs 1 gram. will a solid cube of the same plastic weigh if each edge imetres long?  16 grams 8 grams 4 grams 3 grams 2 grams				
P3Q	13					
14		le is twice as long as it is wide. If it has an area of hat is its *perimeter*?  4 cm 12 cm 16 cm 20 cm 24 cm				

P3Q14

15



The picture above shows a method of finding the height of a tall tree using a short tree. What is the height of the tall tree?

- A 8 metres
- B 10 metres
- C 15 metres
- D 18 metres
- E 20 metres

P3015

16 xIf - < 7, then

$$A \qquad x < \frac{7}{2}$$

$$C \times 14$$

D x > 5

E x > 14

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P3Q16

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17 2  $\square$ If -=-, then  $\square$  can be equal to

A 1 B 2 C 4 D 8 E 16

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P3Q17

18 If xy = 1 and x is greater than 0, which of the following statements is true?

- A When x is greater than 1, y is negative.
- B When x is greater than 1, y is greater than 1.
- C When x is less than 1, y is less than 1.
- D As x increases, y increases.
- E As x increases, y decreases.

P3Q18

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19 A certain operation written as is defined by:

$$b - a$$
 $a b = ----$  for any numbers a and b.

If 5 
$$b = -$$
, what is the value of b?

- A 2
- В
- C 5
- D 7
- E

-----P3019

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20 A factory produces m cars per week. How many cars per week will it produce after production is increased p per cent?

A 100p + m

- D m + mp
  - 100

B 100m + mp

E p --- + m 100

C m + mp -----100

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P3020

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