

IEA - Data Enhancement Project

Questionnaire printing

Study: SC2

Population: 2

Instrument: STQ_2

Student Math Test

Population 2

=====

1

$$\begin{array}{r} 1.27 \\ 2.91 \\ 3.06 \\ +8.22 \\ \hline \end{array}$$

The answer to this sum is

- A 14.36
- B 14.46
- C 15.46
- D 27.16
- E 54.06

P2Q01

2

$$\begin{array}{r} 8265 \\ -5437 \\ \hline \end{array}$$

The answer to this subtraction is

- A 2828
- B 2832
- C 3228
- D 3232
- E 3838

P2Q02

3

The value of $2^3 \times 3^2$ is

- A 30
- B 36
- C 64
- D 72
- E none of these

P2Q03

4 Which of the following is the closest estimate for 29×32 ?

- A 600
- B 700
- C 900
- D 1100
- E 1300

P2Q04

5 What is the square root of 12×75 ?

- A 6.25
- B 30
- C 87
- D 625
- E 900

P2Q05

6 How many seven-man teams can you make out of 7 nine-man teams?

- A 7
- B 8
- C 9
- D 16
- E 63

P2Q06

7 Jane has 48 sweets. She keeps half of them for herself and divides the rest equally among her three friends, Karen, Judith and Helen. How many sweets does Helen get?

- A 16
- B 12
- C 8
- D 6
- E 4

P2Q07

8 $52.01 \div 7$ is equal to

- A 7.04
- B 7.33
- C 7.40
- D 7.43
- E 7.50

P2Q08

9 Which one of the following is correct?

- A $64 \div 9 = 8$
- B $0 \div 7 = 7$
- C $12 \div 6 = 6$
- D $81 \div 9 = 8$
- E $48 \div 6 = 8$

P2Q09

10

$$0.004 \overline{) 24.56}$$

In the division shown above, the correct answer is

- r
- A 0.614
 - B 6.14
 - C 61.4
 - D 614
 - E 6140

P2Q10

11 If a snail takes 3 minutes to travel 90 centimetres, how many centimetres can it travel in one minute?

- A 3
- B 30
- C 87
- D 93
- E 270

P2Q11

12 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?

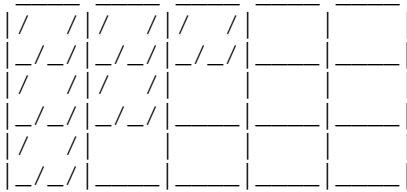
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- A 84
- B 107
- C 120
- D 143
- E 191

P2Q12

13



In the figure the little squares are all the same size, and the area of the whole rectangle is equal to 1.

The area of the shaded part is equal to

- | | | | |
|---|--------------|---|-------------|
| A | 2
-
15 | D | 3
-
8 |
| B | 1
-
3 | E | 1
-
2 |
| C | 2
-
5 | | |

P2Q13

14 Which one of the following is correct?

- | | |
|---|--|
| A | $\frac{3}{7} \times \frac{7}{9} = \frac{63}{21} = 3$ |
| B | $\frac{3}{7} \times \frac{7}{9} = \frac{21}{16} = 1\frac{5}{16}$ |
| C | $\frac{3}{7} \times \frac{7}{9} = \frac{10}{16} = \frac{5}{8}$ |
| D | $\frac{3}{7} \times \frac{7}{9} = \frac{21}{63} = \frac{1}{3}$ |
| E | $\frac{3}{7} \times \frac{7}{9} = \frac{27}{49}$ |

P2Q14

15

$$\frac{a}{15} - \frac{b}{5} \text{ is equal to}$$

A $\frac{a - 3b}{15}$

D $\frac{a - b}{75}$

B $\frac{5a - 15b}{15}$

E $\frac{3a - 5b}{75}$

C $\frac{a - b}{10}$

P2Q15

16 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.

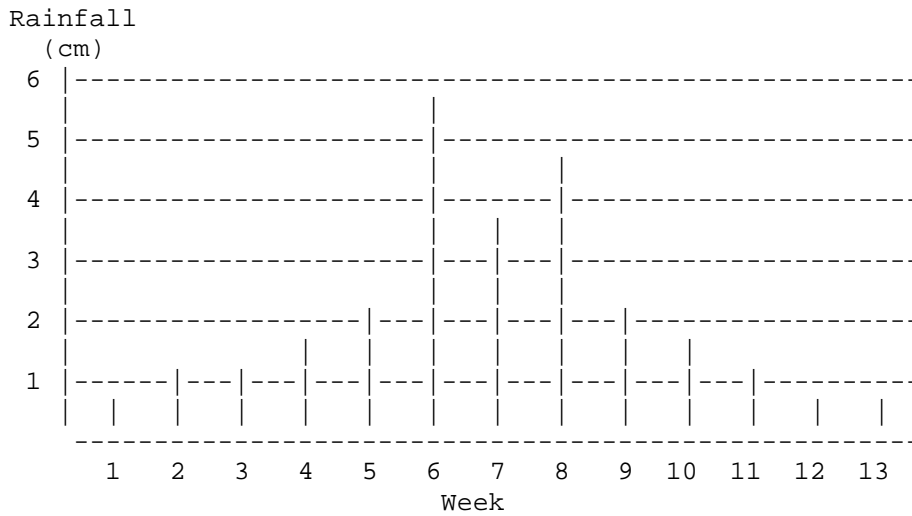
Day	Mon	Tue	Wed	Thur
Maximum temperature	16 °C	18 °C	21 °C	24 °C
Height of the bar	8 cm	9 cm		12 cm

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

P2Q16

17 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

P2Q17

18 What number should go in the space to complete the following number pattern?

2, 4, ..., 48, 240

- A 8
- B 12
- C 16
- D 24
- E 32

P2Q18

19 Four times a certain number is 24 more than the number.
What is the number?

- A 5
- B 6
- C 8
- D 12
- E 18

P2Q19

20 [Picture of 8 'dices' and 1 question-mark in a square]

Part of the pattern above is missing as shown by the question-mark.
Which figure best completes the pattern?

[5 pictures of 'dices']

P2Q20
