# TEAS-SECTION-3 ${ }^{\text {QRAs }}$ 

Test of Essential Academic Skills - Math Problem Solving

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## QUESTION 1

What is the value of $b$ in the equation: A. 1
$\frac{12}{(4 b-10)}-\frac{8}{(2 b-6)}=0$
B. 4
C. 8
D. -1

Correct Answer: A

## QUESTION 2

Which of the following is an improper fraction?
A. $2 / 3$
B. 2.50
C. $5 / 2$
D. $13 / 5$

Correct Answer: C

## QUESTION 3

What percent of 15 is $6 ?$
A. $40 \%$
B. $20 \%$
C. $32 \%$
D. $90 \%$

Correct Answer: A

## QUESTION 4

Express $85 \%$ as a fraction in its simplest form.
A. $17 / 20$
B. $8 / 5$
C. $17 / 200$
D. $5 / 8$

Correct Answer: A

## QUESTION 5

Simplify to a fraction in lowest terms:

## $6+9$

## $6 \times 9$

A. $1 / 9$
B. 5/18
C. 0.277
D. $15 / 24$

Correct Answer: B

## QUESTION 6

Find the value of $(3)(-4)(-3)(5)(-2)$.
A. -1
B. -360
C. 360
D. 17

Correct Answer: B

## QUESTION 7

Which expression is equal to this one?

## $5 x+2+\frac{9(x-12)}{3}-x$

A. $7 x-34$
B. $8 x+34$
C. $7 x+38$
D. $13 x-7$

Correct Answer: A

## QUESTION 8

Sam, Paul, and Dean share a sum of money in the ratio 14:16:18 respectively. Given that Sam receives \$2100, how much does Dean receive?
A. $\$ 2400$
B. $\$ 2000$
C. $\$ 2700$
D. $\$ 5100$

Correct Answer: C

## QUESTION 9

What is the value of $x$ in this equation?

$$
\frac{(x+3)}{4}=\frac{(2 x-3)}{5}
$$

A. -9
B. 15
C. 12
D. 9

Correct Answer: D

## QUESTION 10

Solve the inequality $17-2 \mathrm{a}$
A. a
B. $a>5$
C. a
D. $a>3.5$

Correct Answer: D

## QUESTION 11

If 42.8 kg is divided into two parts, in a ratio of $7 / 2$, how many kg is the smaller share?
A. 9.51 kg
B. 12.22 kg
C. 0.856 kg
D. 21.4 kg

Correct Answer: A

## QUESTION 12

Three numbers $a, b$ and 27 have a mean of 30 . What is the value of $a+b$ ?
A. 67
B. 63
C. 31
D. 28

Correct Answer: B

## QUESTION 13

Find the value of $9+(-41)-(-3)+11$
A. 64
B. 24
C. -24
D. -18

Correct Answer: D

## QUESTION 14

Pattil\'s base salary last year was $\$ 65,000$, not including her year-end bonus. When she checked her human resources profile, she saw that her total compensation added up to $\$ 77,500$. This total included her bonus, as well as health benefits equivalent to $15 \%$ of her base salary.

Rounded to the nearest tenth, what percentage of Pattill's base salary plus benefits was her bonus?
A. $3.6 \%$
B. $23.6 \%$
C. $3.7 \%$
D. $4.2 \%$

Correct Answer: C

## QUESTION 15

A teacher has a rectangular piece of paper which is 52 cm long and 38 cm wide. She cuts the paper into squares, each measuring 5 cm by 5 cm .

What is the largest number of whole squares she cuts?
A. 79.04
B. 70
C. 25
D. 79

Correct Answer: B

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