Department of
Education and Training

STUDENT WORKSHEET

▪ Focus of the week

Using the commutative, distributive and associative laws for calculating efficiently

Question 1

Which one of the following gives the same result as 43 + 43 + 43?

- ○ 43 × 3
- ○ 43 ÷ 3
- ○ 43 − 43 − 43
- ○ 43 + 43

Question 2

Zac wants to calculate the average number of points he scored in 10 games of basketball.

His scores were: **8   15   3   6   11   9   7   12   5   14**

He thought that he could obtain the total points he scored more easily by adding his scores as follows:
$(8 + 12) + (15 + 5) + (3 + 7) + (6 + 14) + (11 + 9) =$
$20 + 20 + 10 + 20 + 20 = 90$

Was he correct? Why?

Question 3

A pie costs $2.80.
A drink costs $1.45.

A tennis club has a windup for its junior members and 25 Juniors attend.
Which is the best estimate of the total cost if each Junior has a pie and a drink?

$75	$95	$105	$115
○	○	○	○

What will be the total cost for a pie and a drink each for the 25 Juniors?

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Challenge Question

Jane correctly calculated 8 times 32 in her head.

Which method did she use?

Shade one bubble.

- ○ double 8; add 30; double again
- ○ double 32; double again; double again
- ○ 8 times 30; add 2
- ○ 8 times 2; multiply the result by 8