Thursday (hard) – LO: to calculate percentage increases and decreases.

Varied fluency

9a. Increase the following numbers by 38%.

A) 28

B) 42

C) 95

VF

10a. Tye is reducing the prices of items in his shop by 12%.

Calculate the new prices.

£9.50

£11.50

£19.50

VF

11a. Pippa scored 52 in her flute exam.

She made herself a target of scoring 18% more in her next exam.

What does her score need to be to hit her target?

VF

12a. True or false?

A 26% decrease in price from £35 means there is £9.10 off.

VF

Reasoning and problem solving

7a. Safeeyah is selling her van.

The van has decreased in value by 7% since she bought it.

She paid £4,500.

She has worked out that the van is now worth £3,185.

Is Safeeyah correct? Explain your answer.

R

8a. Two children were asked to explain their method for calculating a 5% increase:

I divide by ten and then half it. I then add this to the original number.

Maia

Wei

I divide my number by twenty and then add it to the original number.

Who has the most efficient method? Explain your answer.

R

9a. Olivia is buying a bike.

There is 60% off for today only.

Olivia calculates that 60% of the cost of the bike is £120.

What is the original price of the bike?

PS