



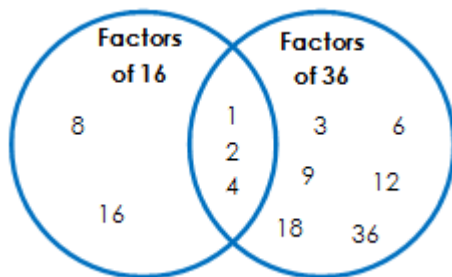
DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 5 PIM – COMMON FACTORS

Fluency 1

A common factor is a number that divides exactly into two or more numbers.

Fluency 2



Examples of numbers which are not factors of 20 or 36 are provided below. Child's answers may differ due to unlimited possibilities.

	Factor of 32	Not a Factor of 32
Factor of 20	1, 2, 4	5, 10, 20
Not a Factor of 20	8, 16, 32	3, 7, 9

Fluency 3

48, 12 and 24

Fluency 4

6 marbles

Reasoning 1

Modelled DAB Reasoning Responses



D – Anita is correct.

A – 21 and 28 have the same number of common factors as 10 and 15.

B – 21 and 28 have 2 common factors – 1 and 7. 10 and 15 also have 2 common factors – 1 and 5.

Reasoning 2

Modelled DAB Reasoning Response

D – False

A – It is not only 2-digit numbers that have the common factors 1, 2, 3, 6, 9 and 18.

B – The number 108 is a 3-digit number and shares these factors.

Reasoning 3

Modelled DAB Reasoning Response

D – Sometimes

A – If two numbers are even, they sometimes have an even number of common factors.

B – The numbers 6 and 10 are even and they have an even number of common factors – 1 and 2. The numbers 4 and 8 are even and they have an odd number of common factors – 1, 2 and 4.

Reasoning 4

Modelled DAB Reasoning Response

D – Ranjit has not found the common factors of 16 and 24.

A – He has found common multiples of 16 and 24.

B – A common factor is a number that divides exactly into two or more numbers. The common factors of 16 and 24 are 1, 2, 4 and 8.

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<https://www.deepeningunderstanding.co.uk/product/dab-reasoning-posters/>



Problem Solving 1

Every 18th customer will receive all three gifts.

Word problems will vary.

Problem Solving 2

Answers could include:

7 is a common factor of **21** , **49** and **84**