

Number patterns

Approach: Independent

Level: Year 4 and year 8

Resources: None

Questions/instructions

In this activity you are going to complete some number patterns.

Here is an example.

2, 4, 6, 8, , .

The next two numbers are 10 and 12

The numbers are getting larger by 2.

% responses
year 4 year 8

Write down the missing numbers in each of these patterns:

1. 1, 3, 5, 7, , .

9, 11 79 95

2. , , 410, 420, 430, 440.

390, 400 41 89

3. 3, 6, 9, 12, , .

15, 18 75 95

4. , , 58, 56, 54, 52.

62, 60 50 89

5. 7, $7\frac{1}{2}$, 8, $8\frac{1}{2}$, , .

9, $9\frac{1}{2}$ 62 94

6. 15, 10, 6, 3, , .

1, 0 23 55

7. 2, 4, 8, 16, , .

32, 64 16 65

8. 9, $9\frac{3}{4}$, $10\frac{1}{2}$, $11\frac{1}{4}$, , .

12, $12\frac{3}{4}$ 29

Commentary

Year 8 students succeeded well where addition and subtraction were involved, until question 8. Year 4 students also struggled where the item included numbers larger than 20.