

Number system

Exercises:

- 1. Write in order, the smallest first : 20, 19.5, $19\frac{3}{4}$
- 2. Which is larger : $\frac{13}{16}$ or $\frac{21}{26}$
- 3. Simplify the following by rationalising their denominators.
 - a) $\frac{3}{\sqrt{2}}$ b) $\frac{3}{7\sqrt{2}}$ c) $\frac{1}{\sqrt{2}}$ d) $\frac{9\sqrt{2}}{2\sqrt{3}}$
 - d) $\frac{9 + \sqrt{2}}{3 + 2\sqrt{2}}$
- 4. Write down the first five terms of the sequence whose nth terms are:

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a) 4n - 1 b) 2n²

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5. If $\frac{2a - b}{2a + b} = \frac{1}{2}$ calculate the value of $\frac{a}{b}$

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Answers

- **Exercises:** $3 \ 1 \ 2$ 1. Write in order, the smallest first : 20, 19.5, $19\frac{3}{4}$
- 2. Which is larger : $\begin{bmatrix} 13\\ 16 \end{bmatrix}$ or $\begin{bmatrix} 21\\ 26 \end{bmatrix}$
- 3. Simplify the following by rationalising their denominators.

a) $\frac{3\sqrt{2}}{2}$ b) $\frac{2\sqrt{2}}{7}$ c) $\frac{\sqrt{2}}{2}$ d) $\frac{3\sqrt{6}}{2}$

4. Write down the first five terms of the sequence whose nth terms are:

a) 3, 7, 11, 15, 19 b) 2, 8, 18, 32, 50

5. If
$$\frac{2a - b}{2a + b} = \frac{1}{2}$$
 calculate the value of $\frac{a}{b}$
 $\frac{1}{2}$