Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

Each answer shows the steps, then the **result**.

2.1

A: $2 + 3 + 4 =$ **9**

B: $4 + 5 + 6 =$ **15**

C: $1 + 1 + 2 =$ **4**

2.2

B $\rightarrow$ **D** $\rightarrow$ **C** $\rightarrow$ **A** (inspection, palpation, percussion, auscultation)

2.3

A: right lower lobe **pneumonia** (consolidation)

B: left **pneumothorax** (tension, as the trachea has moved)

C: right **pleural effusion**

2.4

any two of: lung cancer; lung fibrosis; bronchiectasis or cystic fibrosis; cyanotic heart disease; infective endocarditis; inflammatory bowel disease

3.1

(a) $2 + 2 + 1 + 2 + 2 + 0 =$ **9**

(b) 7 or more: emergency; a senior doctor or the critical care team must see him at once, with observations at least every 15–30 minutes

(c) fever, fast breathing and fast heart rate with low BP

(d) redness, swelling, pus, or the wound opening

3.2

(a) no: normal is 3 cm or less; a raised JVP shows high right heart (venous) pressure, as in heart failure

(b) any one of: fine crackles at both bases; a third heart sound; a displaced apex beat; sacral oedema

(c) press firmly over the shin or ankle for about 10 seconds, then look and feel for a dent that stays

3.3

(a) any three of: wash your hands; introduce yourself and get consent; offer a chaperone; position and expose properly; ask about pain

(b) so she does not tense up, and so you can see her face for pain

(c) many signs appear there, e.g. clubbing, anaemia, tremor, flap

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(d) fluid in the abdomen (ascites)

(e) **rebound tenderness**: peritonitis (inflammation of the peritoneum)