(1) $70 + 75 + 80 = 225$

$\div 3$

$225/3 = 75$

(2) $10 + 12 + 14 + 16 + 18 = 70$

$\div 5$

$70/5 = 14$ years

(3) $10 \times 5 = 50$ Kg

(4) $2 \times 5 = 10$ hours

(5) $1/4 = \underline{0.25}$ bricks / hour.

(6) $2/3 = \underline{0.66}$ of the wall

(7) work per day by 1 worker $= \underline{1/48}$

(8) Total $= 15 \times 6 = \underline{90}$

(9) Total $= 50 \times 4 = \underline{200}$

(10) Total work $= 4 \times 12 = 48$ units.

$48/2 = \underline{24}$ days

(11) $50/10 = \underline{5}$ days

(12) A slow = 1/20

So B = 1/12 − 1/20

= (5 − 3)/60

= 2/60

= 1/30

= 30 days

(13) 60/7 ≈ 8.57

= 8 days 4 hours

(14) Original Total = 5 × 20 = 100

New average = 4 × 18 = 72

Removed = Original Total − New average

= 100 − 72

= 28

(15) Total w = 10 × 30 = 300 kg

Removed w = 25 + 35 = 60 kg

New total w = 300 − 60

= 240 kg

Remaining students = 10 − 2 = 8

New average = 240/8 = 30 kg

(16) $1/6$, $1/8$, $1/12$

LCM for 6, 8, 12 = 24

Convert to fraction

$(1/6 = 4/24)$, $(1/8 = 3/24)$, $(1/12 = 2/24)$

$= \frac{2}{24} + \frac{3}{24} + \frac{2}{24} = \frac{3}{8}/24 = 3/8.$

Time to complete full work = $1/(3/8)$

$= 8/3$ days

(17) Original Total = $8 \times 35 = 280$

New No -11- = $40 + 45 + 50 = 135$

New -11- = $280 + 135 = 415$

Total No's = $8 + 3 = 11$

New average = $415/11 \simeq 37.7$

(18) Total = $10 \times 25 = 250$

Remove 40 → New Total = $250 - 40 = 210$

remaining No = 9

New average = $210/9 \simeq 23.3$

(19) work / day · A = $1/15$

In 5 days = $5 \times 1/15 = 1/3$ of the work.

work left = $1 - 1/3 = 2/3$

(20) Sum = 7 × 30 = 210

1 → 42

210 − 42 = 168.

Avg = 168/6 = 28

(21) 1/24 + 1/30 + 1/40

Avg = (5 + 4 + 3)/120 = 12/120 = 1/10

5 days = 5 × 1/10 = 1/2

work = 1 − 1/2 = 1/2

(22) A + B = 1/10 B = 1/15

Total = 1

A = x w = x/30

(12 − x)/10 + x/30 = 1

x = 3 days

(23) Sum = 10 × 50 = 500

+20 & −10 sum +10

Sum = 510

Avg = 510/10 = 51

(24) Fill = 1/8 , Empty = 1/12

Together = 1/8 - 1/12

= (3-2)/24

= 1/24

= 24 hours

(25) 1/10 + 1/15 + 1/20

Avg = $\frac{6+4+3}{60}$ = 13/15

4 days = 4 × 13/15 = 2/15