

Answers for Day 5, 27th March 2020 (A NEW MK P.6
Pg 393)

7 Let Mugisha's cows be x

Okello	Mugisha	Total
$7+x$	x	19

$$7+x+x = 19$$

$$7+2x = 19$$

$$7-7+2x = 19-7$$

$$0+2x = 12$$

$$2x = 12$$

$$\frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

\therefore Mugisha has
6 cows.

2 let the brother's books be x

Namu	brother	Total
$6+x$	x	20

$$\begin{aligned}
 x+6+x &= 20 \\
 6+x+x &= 20 \\
 6+2x &= 20 \\
 6-6+2x &= 20-6 \\
 0+2x &= 14 \\
 \frac{2x}{2} &= \frac{14}{2} \\
 x &= 7 \text{ books}
 \end{aligned}$$

3 let the son's age be y .

son	daughter	Total
y	$y+7$	27

$$\begin{aligned}
 y+y+7 &= 27 \\
 2y+7 &= 27 \\
 2y+7-7 &= 27-7 \\
 2y+0 &= 20 \\
 \frac{2y}{2} &= \frac{20}{2} \\
 y &= 10 \text{ years}
 \end{aligned}$$

5 let sister's age be k .

Mother	sister	Total
$k+8$	k	24

$$\begin{aligned}
 k+8+k &= 24 \\
 k+k+8 &= 24 \\
 2k+8 &= 24 \\
 2k+8-8 &= 24-8 \\
 \frac{2k}{2} &= \frac{16}{2} \\
 k &= 8 \\
 \text{The eldest sister} &= 8 \text{ yrs}
 \end{aligned}$$