**Solutions:**

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| **1.** | (i)    Monomial is an expression that has one term.<br><br>(ii)    Binomial is an expression that has two terms.<br><br>(iii)    Trinomial is an expression that has three terms.<br><br>(iv)    Polynomial is an expression that has two or more  term |
| **2.** | (i)    3<br>(ii)    $-4$<br>(iii)    1 |
| **3.** | (i) $3b^2 + b$  ( common factor )<br>    $3b^2 = 3 \times b \times b$<br>    $b\ = b \times 1$<br>    **$b\,(3b +1)$**<br><br>(ii) $5a - 5a^2$<br>    $5a = 5 \times a$<br>    $5a^2 = 5 \times a \times a$<br>    **$5a(1 - a)$** |
| **4.** | *(i)*    $5( -x - 4) \geq 30$<br>    $( -x - 4) \geq 30 \div 5$    *use inverse operation*<br>    $( -x - 4) \geq 6 +4$<br>    $-x \leq 10 \div -1$<br>    **$x \leq -10$**<br><br>**When solving in-equations, reverse the inequality sign when dividing or multiplying both sides by a negative number**<br><br><br>-10    0<br><br>*(ii)*    $\frac{x}{5} + 2 \leq 17$<br><br>    $\frac{x}{5} + 2 \leq 17 - 2$<br><br>    $\frac{x}{5} \leq 15$    *use inverse operation*<br><br>    $\frac{x}{5} \leq 15 \times 5$<br><br>    **$x \leq 75$**<br><br><br>0    75 |

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| **5.** | (i) Write **an equation** to represent their combined ages. Let Luisa's age be $x$.<br><br>Luisa = $x$<br>Jonasi = $2x$<br>**$x + 2x = 63$ or $3x = 63$**<br><br><br>(ii) How old is Luisa?<br>*$3x = 63$*<br>*$x = 63 \div 3$*<br>**$x = 21$ years**<br><br><br>(iii) How old is Jonasi?<br>*$63 - 21 = $ **42 years**<br><br><br> |