**Name:** _____

**ASM Tuition Academy**

**SOLVING EXAMPLES**

**Instructions:**

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
  - there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all you're working out.**

**Information:**

- The marks for each question are shown in brackets
  - use this as a guide as to how much time to spend on each question.

**Advice:**

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q1. Find the number in each box to make the calculation correct.

(i)      $10 +$ _____ $= 17$

(ii)     $25 -$ _____ $= 23$

**(Total for question 1 is 2 marks)**

Q2. Solve $y + 6 = 20$

**(Total for question 2 is 1 mark)**

Q3. Solve $\frac{t}{3} = 20$

**(Total for question 3 is 2 marks)**

Q4. Solve $2x = 12$

**(Total for question 4 is 1 mark)**

Q5. Solve y-5 = 12

**(Total for question 5 is 1 mark)**

Q6. Solve  3z=30

**(Total for question 6 is 1 mark)**

Q7. Solve 6(x – 3) = 12

**(Total for question 7 is 2 marks)**

Q8. $2(x - 3) = 120$

**(Total for question 8 is 2 marks)**

Q9. $10(n - 2) = 60$

**(Total for question 9 is 2 marks)**

Q10.

(a) Solve $x + 7 = 21$

(b) Solve $3t - 10 = 26$

**(Total for question 10 is 3 marks)**

Q11.

(a) Solve $x + x + x = 30$

(b) Solve $\frac{y}{4} = 4$

(c) Solve $2a - 5 = 51$

**(Total for question 11 is 3 marks)**

Q12. $9(m - 5) = 45$

**(Total for question 12 is 2 marks)**

Q13.

(a) Solve $\frac{2x}{3} = 6$

(b) Solve $2(n + 5) = 16$

**(Total for question 13 is 3 marks)**

Q14.

(a) Solve $s + s + s + s = 36$

(b) Solve $u - 3 = 4$

(c) Solve $4d + 6 = 34$

**(Total for question 14 is 4 marks)**

Q15.

(a) Solve $4t = 16$

(b) Solve $3y + 9 = 21$

**(Total for question 15 is 3 marks)**

Q16.

Solve $\frac{3x}{3} - 6 = 6$

**(Total for question 16 is 2 marks)**

Q17.

(a) Solve $4 = 12 - 4k$

(b) Solve $\frac{k+4}{4} = 5$

**(Total for question 17 is 4 marks)**

Q18.

(a) Solve $4w = 3w + 9$

(b) Solve $4x + 8 = 0$

**(Total for question 18 is 4 marks)**

Q19.

(a) Solve $2p + 36 = 8p$

(b) Solve $36 = 4(2x - 5)$

**(Total for question 19 is 4 marks)**

Q20. Solve $4x + 10 = 6x + 8$

**(Total for question 20 is 2 marks)**

Q21. Solve $3m - 10 = 20 + m$

**(Total for question 21 is 2 marks)**

Q22. Solve $10 - 2k = 3k - 5$

**(Total for question 22 is 2 marks)**

Q23. Solve $6y + 11 = 3y + 5$

**(Total for question 23 is 2 marks)**

Q24. Solve $8x + 10 = 2x + 28$

**(Total for question 24 is 2 marks)**

Q25. Solve $3x + 15 = 6x - 12$

**(Total for question 25 is 2 marks)**

Q26. Solve $3x - 9 = 4x + 7$

**(Total for question 26 is 2 marks)**

Q27. Solve $20t - 20 = 7t - 7$

**(Total for question 27 is 2 marks)**