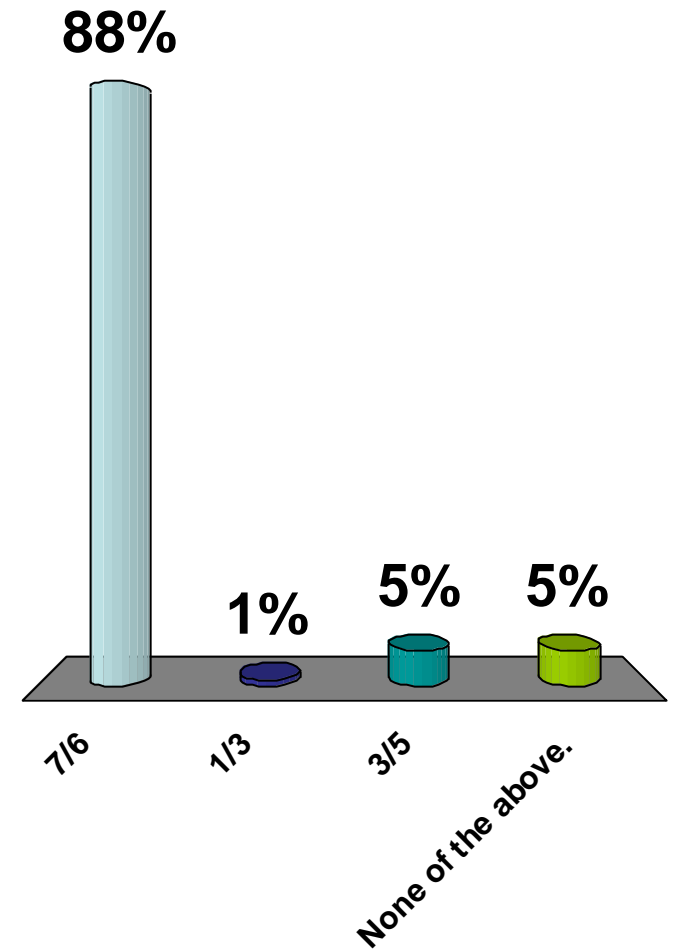


# EFY Diagnostic Maths Quiz



0. The sum  $\frac{1}{2} + \frac{2}{3}$  is equal to:

- ✓ 1.  $\frac{7}{6}$
- 2.  $\frac{1}{3}$
- 3.  $\frac{3}{5}$
- 4. None of the above.



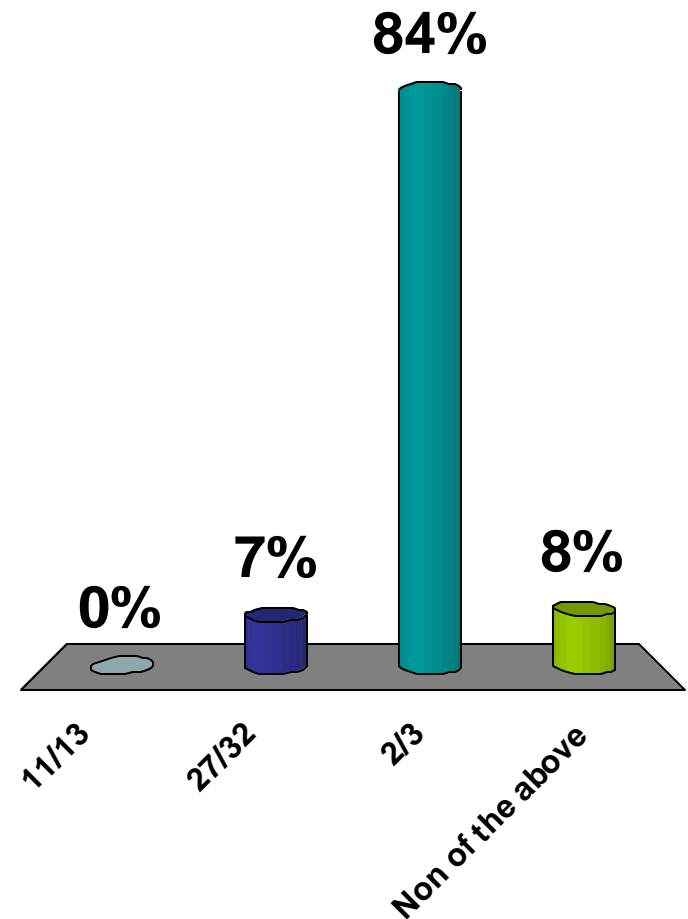
1. The product  $\frac{3}{4} \times \frac{8}{9}$  is equal to:

1. 11/13

2. 27/32

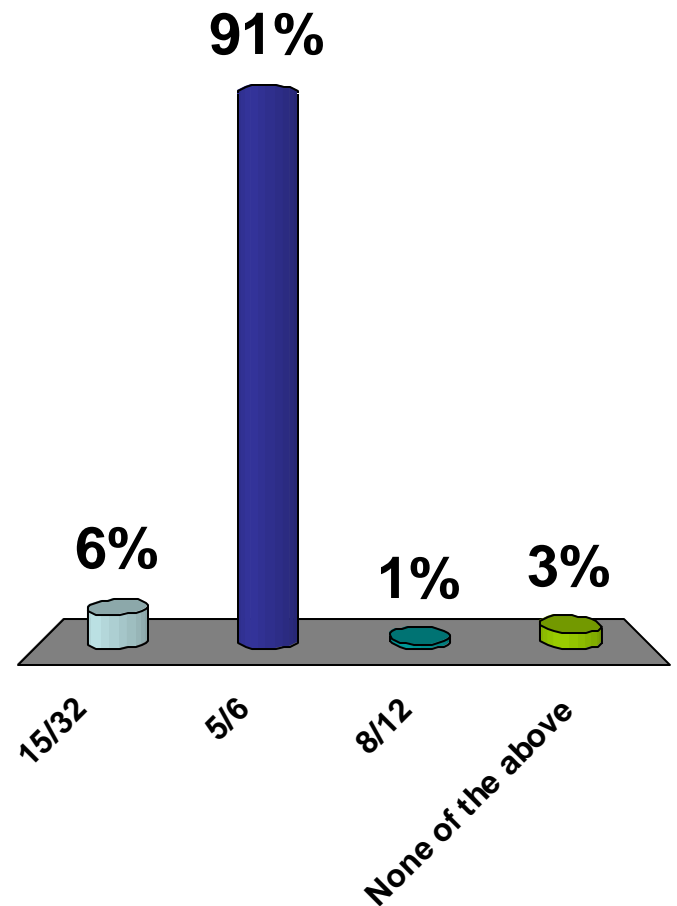
✓ 3. 2/3

4. Non of the above



2. The quotient  $\frac{5}{8} \div \frac{3}{4}$  is equal to:

1.  $15/32$
- ✓ 2.  $5/6$
3.  $8/12$
4. None of the above



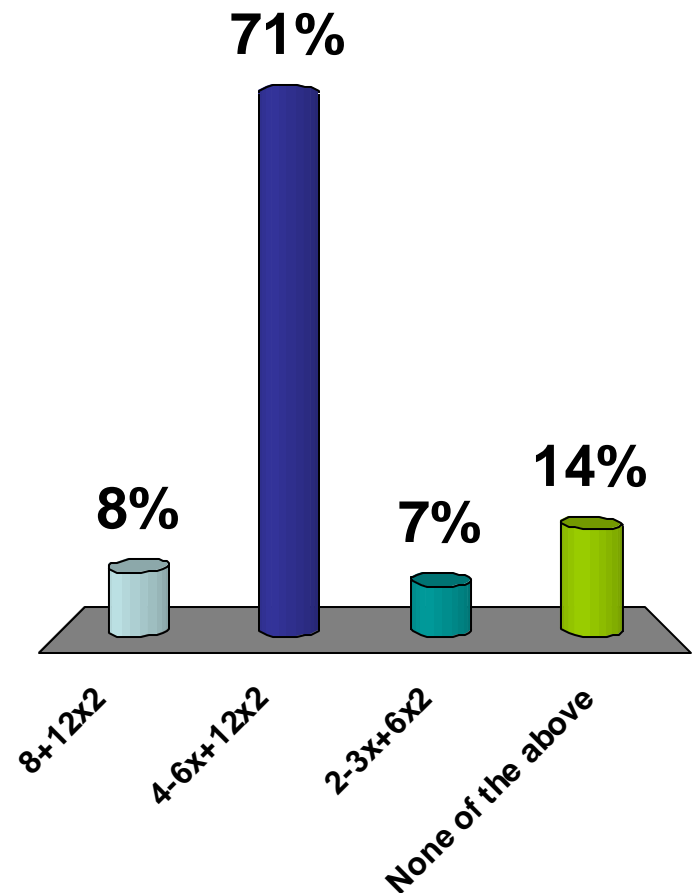
3.  $4-3x(2-4x)$  is equal to:

1.  $8+12x^2$

✓ 2.  $4-6x+12x^2$

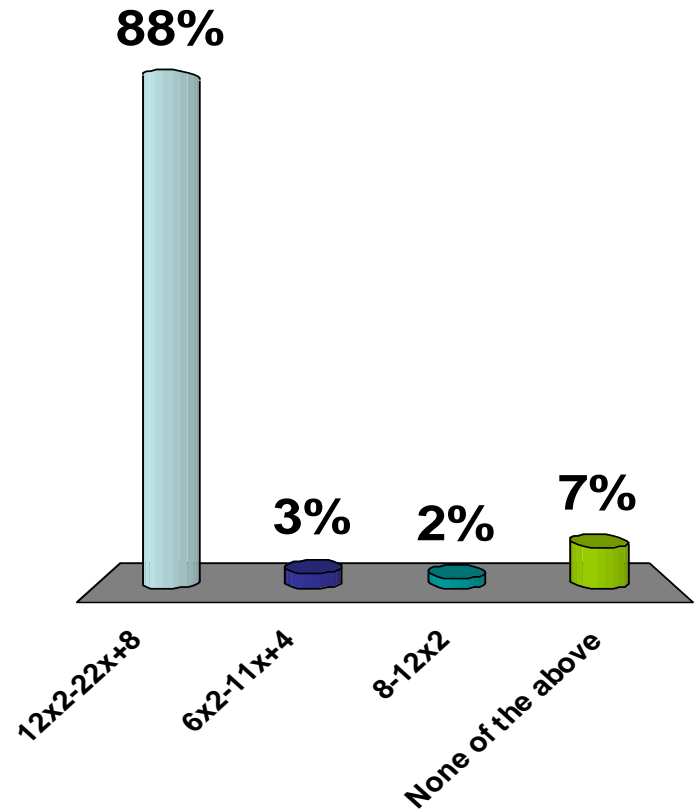
3.  $2-3x+6x^2$

4. None of the above



4.  $(4-3x)(2-4x)$  is equal to:

- ✓ 1.  $12x^2-22x+8$
- 2.  $6x^2-11x+4$
- 3.  $8-12x^2$
- 4. None of the above



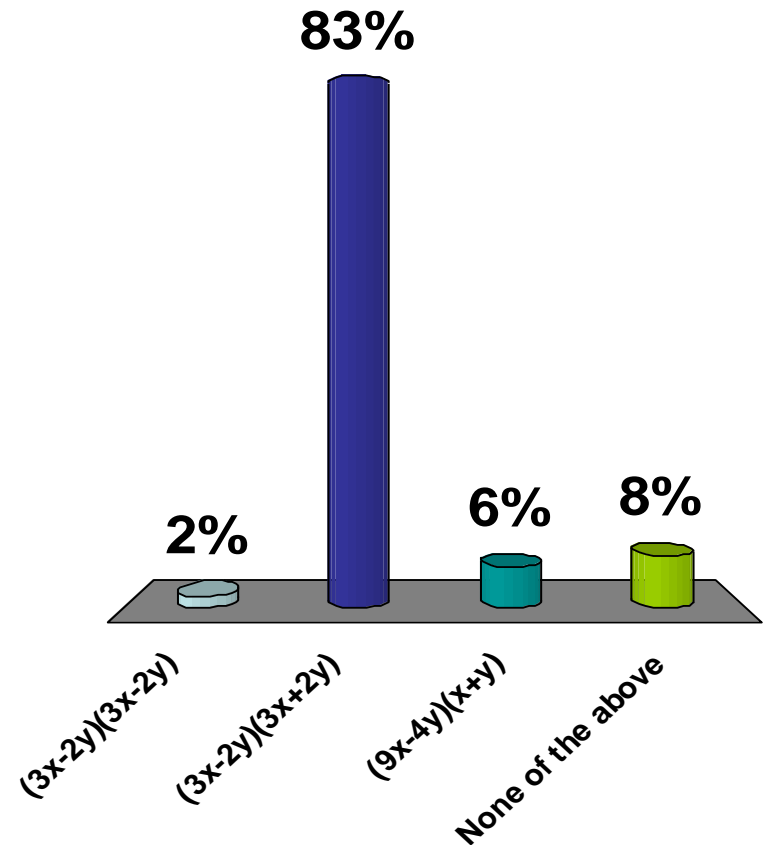
5.  $9x^2-4y^2$  can be factorised as:

1.  $(3x-2y)(3x-2y)$

✓ 2.  $(3x-2y)(3x+2y)$

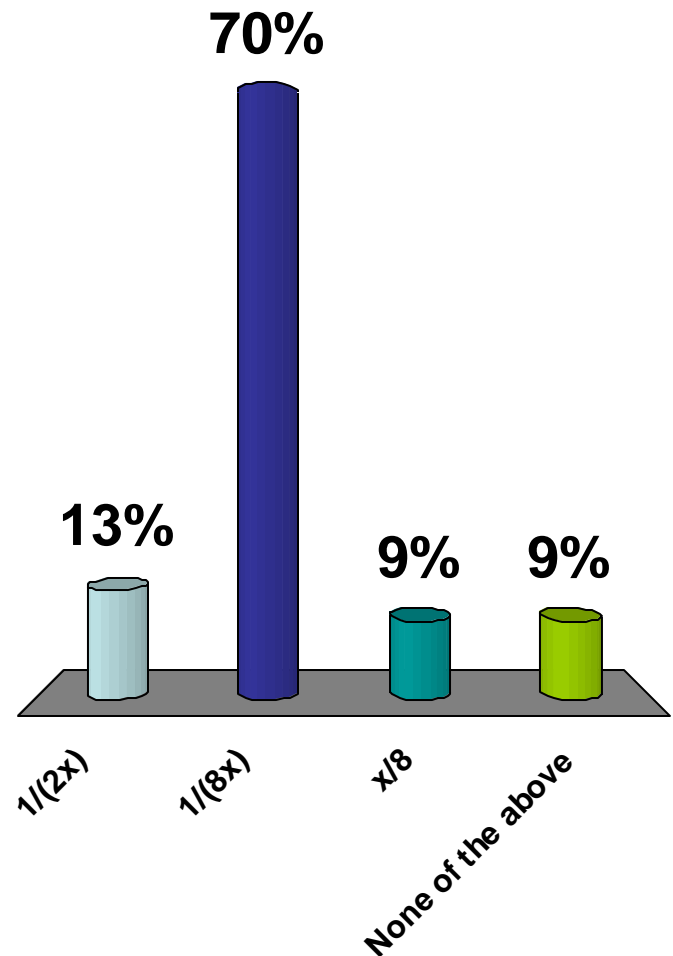
3.  $(9x-4y)(x+y)$

4. None of the above



6.  $\frac{xx^3}{x^2(2x)^3}$  when simplified is equal to:

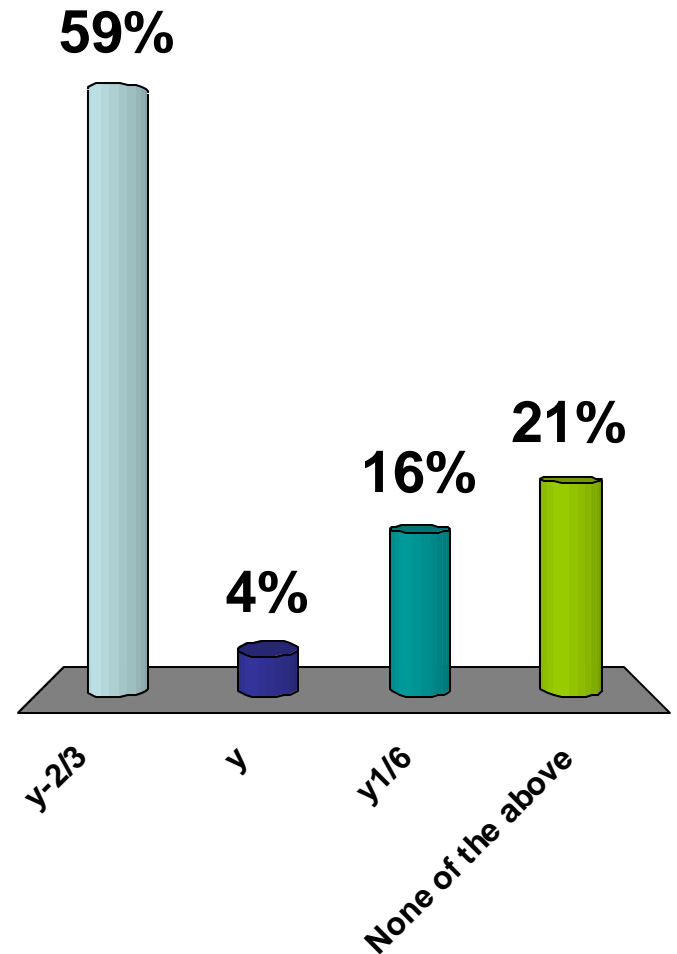
1.  $1/(2x)$
- ✓ 2.  $1/(8x)$
3.  $x/8$
4. None of the above





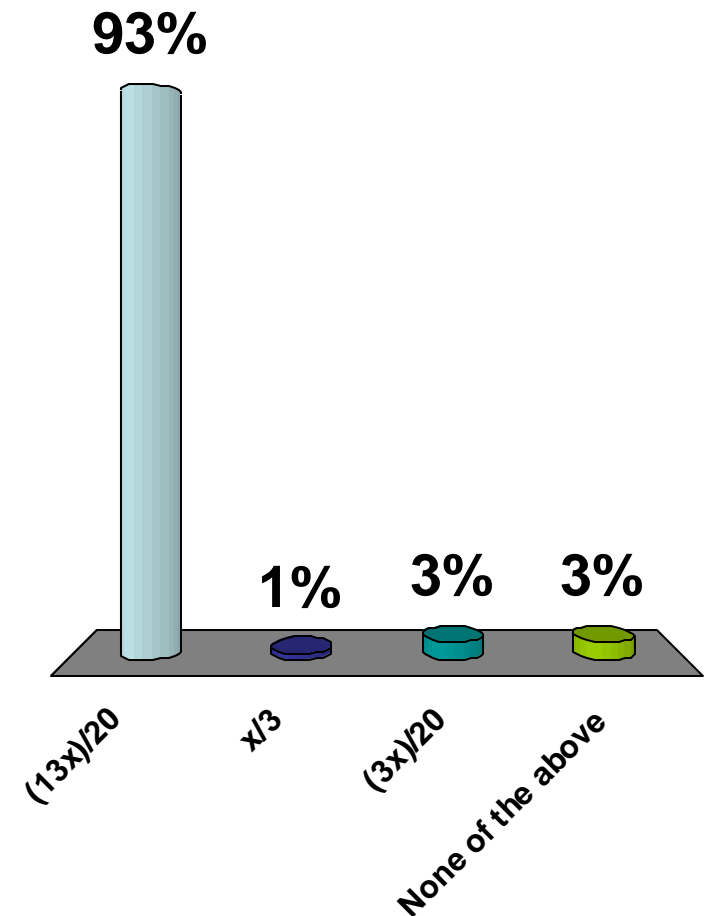
7.  $\frac{(y^{2/3})^{1/2}}{(y^3)^{1/3}}$  when simplified is equal to:

- ✓ 1.  $y^{-2/3}$
- 2.  $y$
- 3.  $y^{1/6}$
- 4. None of the above



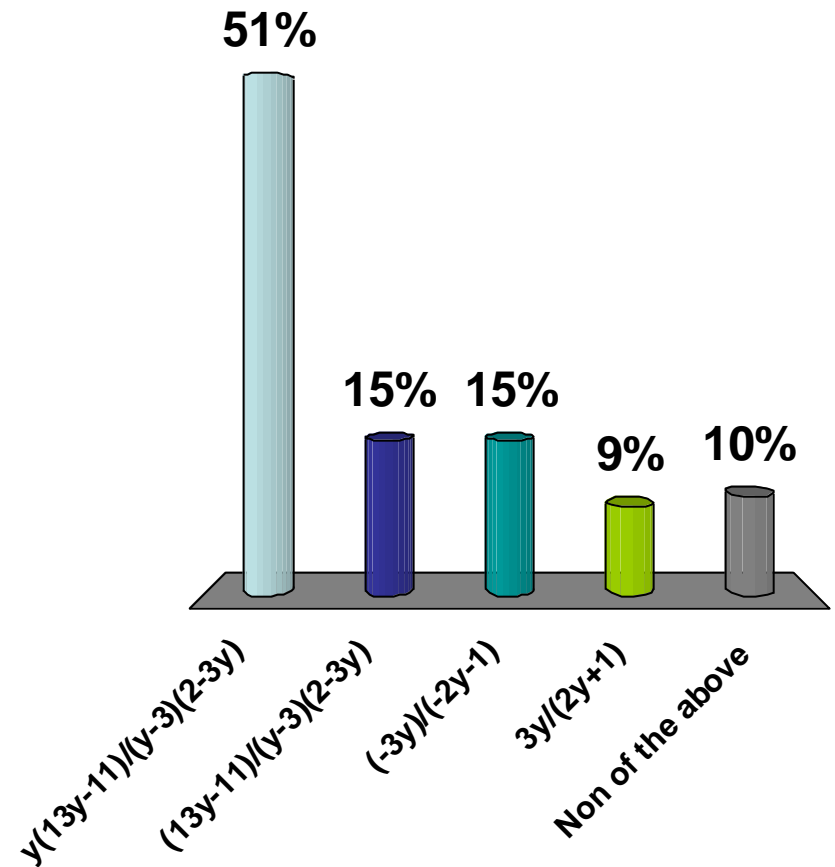
8.  $\frac{x}{4} + \frac{2x}{5}$  expressed as a single fraction is equal to:

- ✓ 1.  $(13x)/20$
- 2.  $x/3$
- 3.  $(3x)/20$
- 4. None of the above



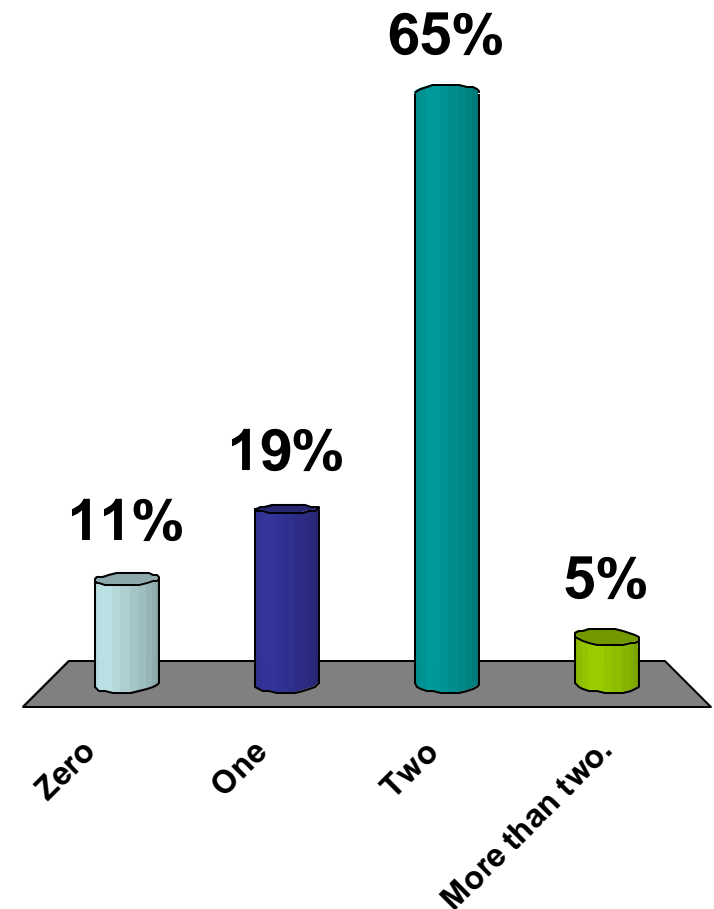
9.  $\frac{y}{2-3y} - \frac{4y}{y-3}$  expressed as a single fraction is equal to:

- ✓ 1.  $y(13y-11)/(y-3)(2-3y)$
- 2.  $(13y-11)/(y-3)(2-3y)$
- 3.  $(-3y)/(-2y-1)$
- 4.  $3y/(2y+1)$
- 5. Non of the above



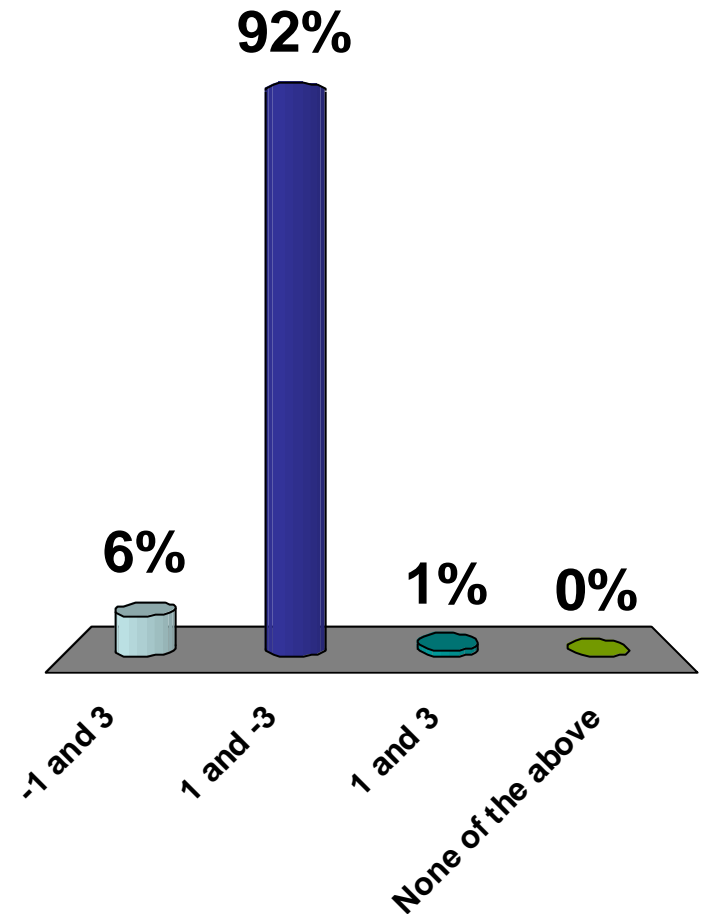
10. How many real solutions has the quadratic equation  $x^2+2x-3=0$ ?

1. Zero
2. One
- ✓ 3. Two
4. More than two.



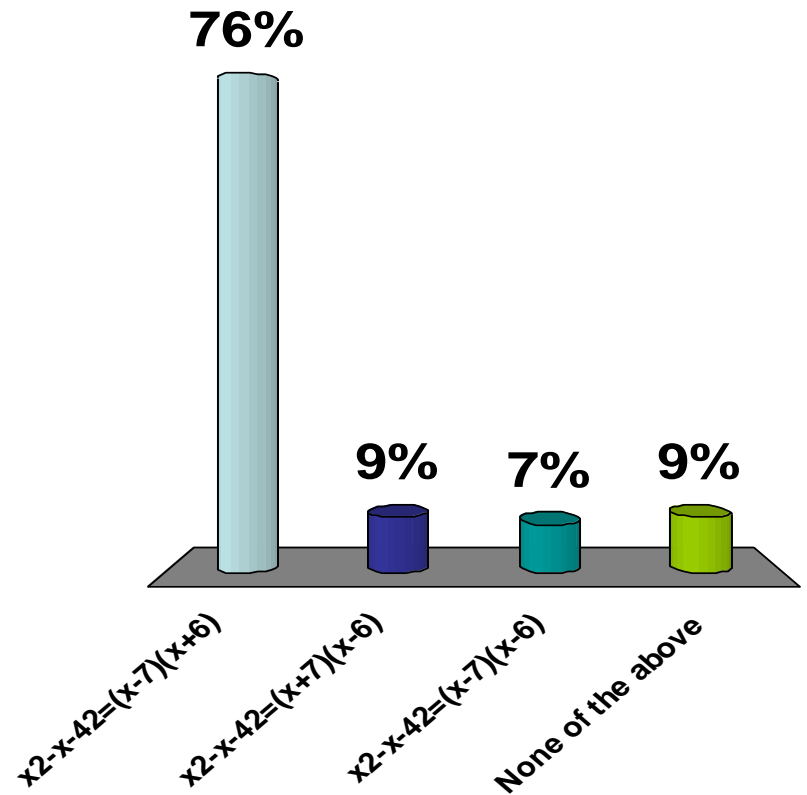
11. What are the solutions of the quadratic equation  $(x-1)(x+3)=0$ ?

1. -1 and 3
- ✓ 2. 1 and -3
3. 1 and 3
4. None of the above



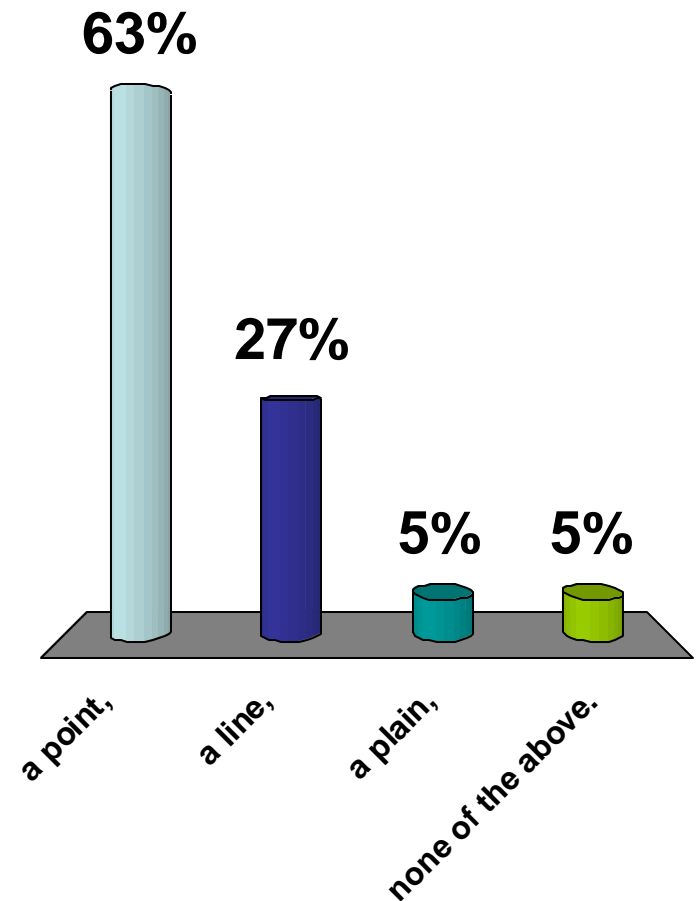
12. The solutions of the quadratic equation  $x^2-x-42=0$  are  $x=7$  and  $x=-6$ . How can it be factorised?

- ✓ 1.  $x^2-x-42=(x-7)(x+6)$
- 2.  $x^2-x-42=(x+7)(x-6)$
- 3.  $x^2-x-42=(x-7)(x-6)$
- 4. None of the above



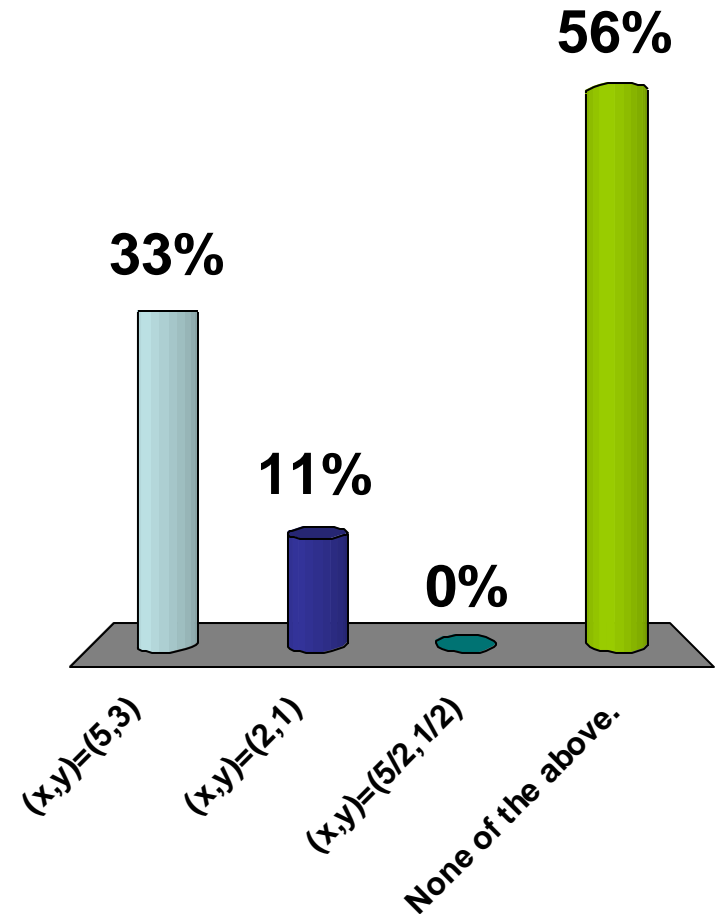
13. What does the solution to the system of equations  $x-y=2$ ,  $3x+4y=13$  represent?

- ✓ 1. a point,
- 2. a line,
- 3. a plain,
- 4. none of the above.



14. The solution of the simultaneous equations  $x-y=2$ ,  $x+y=3$  is:

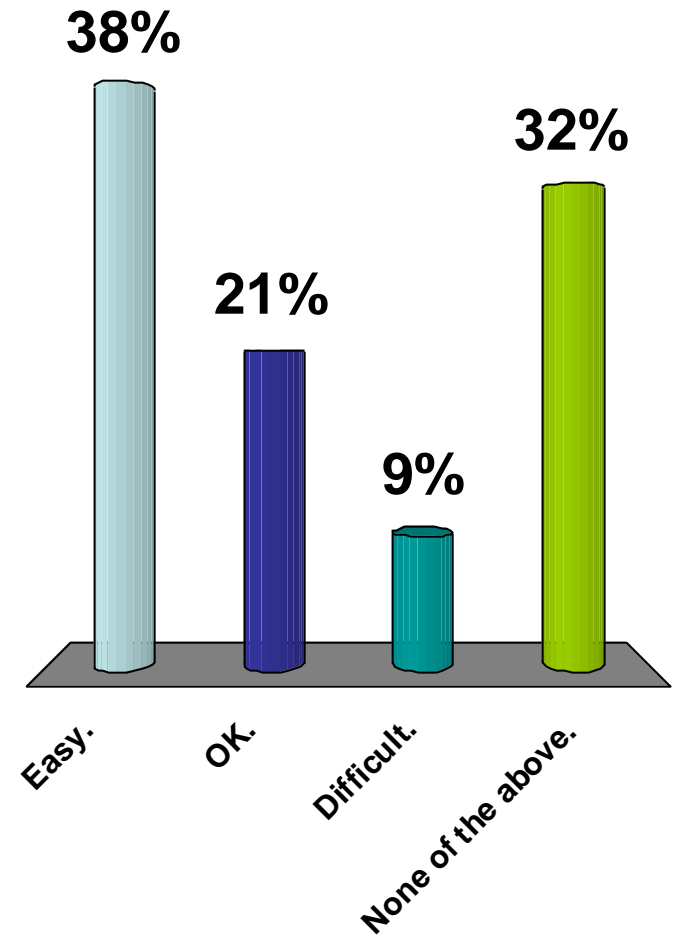
1.  $(x,y)=(5,3)$
2.  $(x,y)=(2,1)$
- ✓ 3.  $(x,y)=(5/2, 1/2)$
4. None of the above.





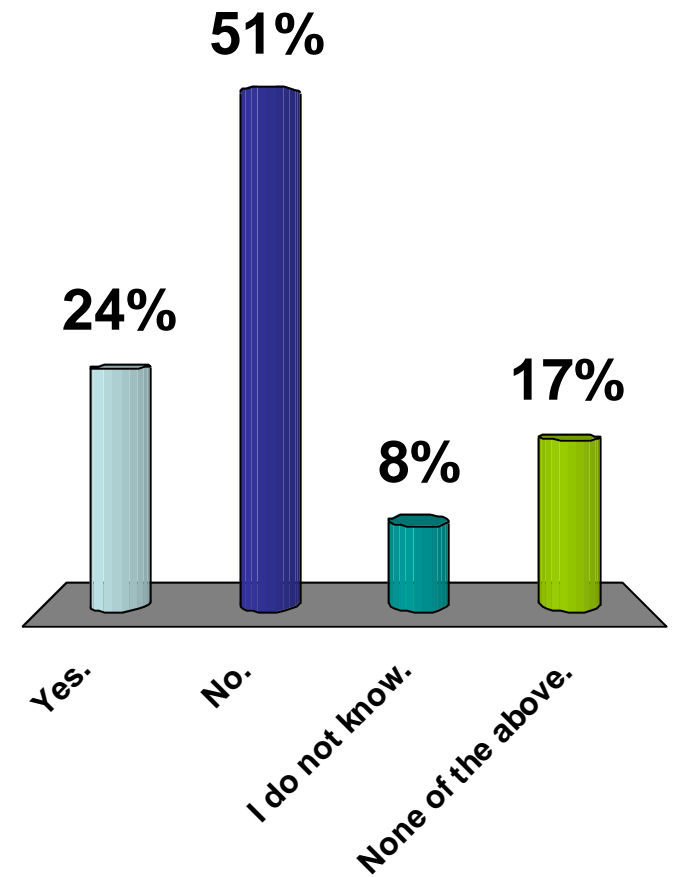
# 15. How did you find this quiz?

1. Easy.
2. OK.
3. Difficult.
4. None of the above.



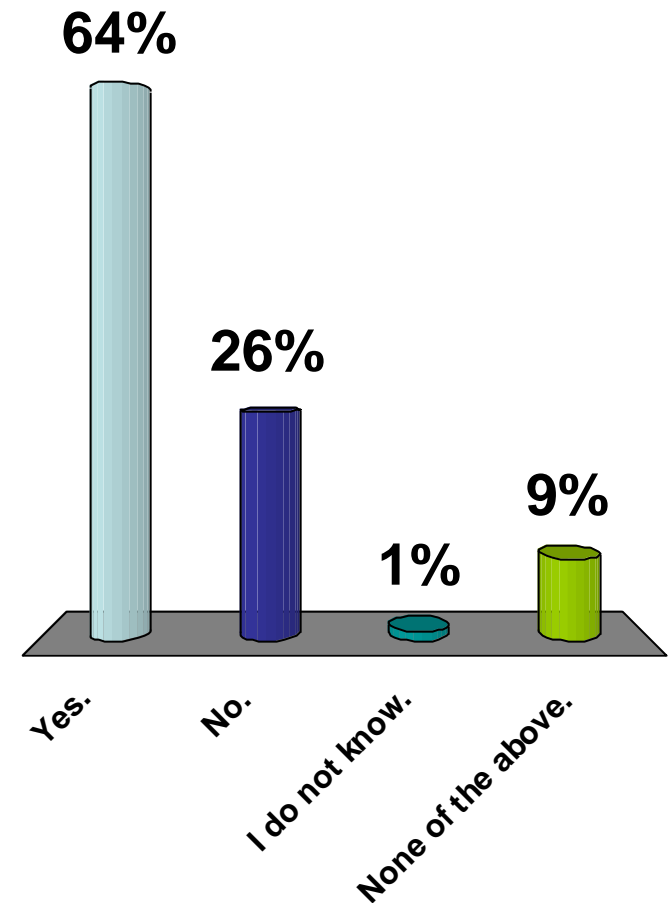
# Did you enjoy it?

1. Yes.
2. No.
3. I do not know.
4. None of the above.



# Would you like to use this technology more often to check your knowledge?

1. Yes.
2. No.
3. I do not know.
4. None of the above.



Thanks!!

