### ST GEORGE'S COLLEGE WEYBRIDGE

## **12+ ENTRANCE EXAMINATION**



## **MATHEMATICS**

# **30** minutes

#### **Read the following instructions carefully**

- There are 10 questions. You should attempt all of them
- Write your answers on the lined paper provided. Make sure you write your name and your school's name on each piece of paper you use.
- Write neatly and show all your working. It may be possible to give you marks if your working makes sense, even if your final answer is wrong.
- Keep an eye on the time. Work carefully and steadily. Move on to another question if you find yourself spending too long on a question.
- You may not use a calculator.

1.	Calculate a) $-18-7+4$ b) (	$(-3) \times (-8) \div (-2)$	(2 marks)
2.	Round the following numbers (a) 7.2355 (to 2 decimal place) 15.8356 (to 2 significant free free free free free free free fre	correct to the stated degree of accuracy ces) igures)	(2 marks)
3.	Find a) $\frac{3}{5}$ of 35		(2 marks)
4.	If $X = 3Y + 2$ , find the value of:		
	a) X when $Y = 4$	b) Y when $X = 11$	(3 marks)
5.	Calculate a) $3 + 2 \times 7$	b) $3 \times 4 + 3 \div 1$	(3 marks)
6.	Expand out the following brac a) $3x+2(x-3y)$	kets and simplify b) $7x - (2x - 4y)$	(4 marks)
7.	Express these decimals as frac a) 0.6	ctions in their lowest terms: b) 0.025	(3 marks)
8.	Solve the following equation a) $2x-3=9$	s b) $x+3=3x-7$	(4 marks)
9.	Express as a single number in a) $3^2 \times 3^3$	index form: b) $3^6 \div 3^2$	(2 marks)
10.	Calculate a) $\frac{2}{5} + \frac{3}{7}$	b) $1\frac{1}{3} \times \frac{5}{8}$	(4 marks)