

L7 Grode 4

Progression: Quick

Solving Linear Equations (D)



Solve the equations and leave your answers as simplified fractions or as decimals.

Section A

CERT		
1)	2x + 5	= 11

5)
$$8x + \frac{1-4x}{9} = 7$$

9)
$$2 + \frac{4x}{3} - 7 = 1$$

6)
$$\frac{5}{x} = -6$$

1)
$$\frac{2x+5}{3} = 11$$

5) $8x + \frac{1-4x}{8} = 7$
9) $2 + \frac{4x}{3} - 7 = 1$
2) $\frac{8-3x}{2} = 5$
6) $\frac{5}{x} = -6$
10) $4 - \frac{3x}{2} = 3x + 5$
3) $\frac{5-9x}{6} = -2$
7) $\frac{11}{4x} + 9 = 3$
11) $6 - \frac{2}{x} = 10$

3)
$$\frac{5-9x}{6} = -$$

7)
$$\frac{11}{4x} + 5$$

11)
$$6 - \frac{2}{1} = 1$$

4)
$$\frac{7x+6}{3}-9=-12$$
 8) $5-\frac{3x}{4}=8x$ 12) $4-\frac{2x}{9}+x=-1$

8)
$$5 - \frac{3x}{3} = 80$$

12)
$$4 - \frac{2x}{2} + x = -\frac{1}{2}$$

Section B

$$4(2x-3)=8(2x+5)$$

1)
$$4(2x-3)=8(2x+5)$$

2) $3(4x-5)=5(2x-5)$
3) $8(6x+2)=5(x-2)$
4) $2(3x-4)=7(11-2x)$
5) $7(5-x)=-4(x-11)$
7) $7(4-3x)=2(8x-9)+6$
8) $-6(3-4x)+2x=8(x+11)$
9) $3(2x-6)=3-4(3-x)$
10) $9(2x-1)-3x=3(12+x)$
11) $4x-(2x-8)=5(1+2x)$

5)
$$7(5-x)=-4(x-11)$$

6)
$$-4(x-8) = -6(4+3x)$$

8)
$$-6(3-4x)+2x=8(x+$$

$$3(2x-6)=3-4(3-x)$$

10)
$$9(2x-1)-3x=3(12+x)$$

11)
$$4y = (2y = 8) = 5(1 + 2y)$$

6)
$$-4(x-8) = -6(4+3x)$$
 12) $10-6(8x-2) = 9x-(3+4x)$

Section C

1)
$$\frac{5x-2}{3} = \frac{4x+1}{2}$$

2)
$$\frac{7x-8}{5} = \frac{2x+5}{4}$$

3)
$$\frac{-8x-1}{2} = \frac{5-3x}{6}$$

4)
$$\frac{5(x+11)}{3} = \frac{3(1+x)}{3}$$

5)
$$\frac{3(2+5x)}{4} = \frac{2(6x-3)}{5}$$

6)
$$\frac{2(3x-5)}{3} = \frac{-4(x-7)}{7}$$

7)
$$\frac{1}{2}(2x-6) = \frac{1}{4}(8-12x)$$

7)
$$7(4-3x) = 2(8x-9)+6$$

8)
$$-6(3-4x)+2x=8(x+11)$$

9)
$$3(2x-6)=3-4(3-x)$$

10)
$$9(2x-1)-3x=3(12+x)$$

1)
$$\frac{5x-2}{3} = \frac{4x+1}{2}$$

8)
$$\frac{1}{2}(5x+7) = \frac{3}{4}(3x-1)$$

9) $\frac{5}{3} = 12$

9)
$$\frac{5}{3x+1} = 12$$

10)
$$\frac{x+2}{x+3} = 4$$

10)
$$\frac{x+3}{x+3} = 4$$

11) $\frac{2x-9}{3x-2} = -3$

12)
$$\frac{2}{3x+10} = \frac{1}{x}$$

3)
$$\frac{2}{7x+3} = \frac{2}{2x}$$

14)
$$\frac{8}{6x+12} = -\frac{11}{7x-10}$$

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Algebra . Level 7 . Equations . Solving Linear Equations (D)

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LO: to know the days of the week and the months of the year.

Week

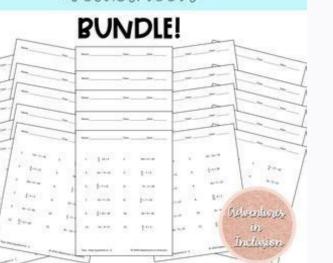
- 1. What is the day three days after Wednesday?
- What day is it 2 days before Monday?
- 3. 2 days ago was Thursday. What day is it today?
- 4. 4 days from today, it will be Sunday. What day is it today? Yesterday was three days after Saturday. What day is it today?

Month

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- 6. What day is the 1st day of the month?
- 7. How many days are there in January?
- 8. What day is it two days before 27th January?
- 9. How many full weeks are there in January?
- 10. What is the date one week after 13th January
- 11. Sophie goes on holiday on the 4th January for 10 days. What date does she
- 12. Daniel goes on holiday the 2nd Saturday in January. What date did he leave?

Level A worksheets



9-1 GCSE Maths Exam style Questions on the topic of compound interest.
Formula (recommended by exam boards) to use for these questions using a calculator: $F = P \left(1 + \frac{R}{100}\right)^{T1}$ P = Principal amount (starting value) R = Interest Rate (can be a decimal value) 1 = sumber of years F = Final amount (end value) $\left(1 + \frac{R}{100}\right) = multiplier$ 1. Zander wants to invest £30000 for 3 years in a bank.
Sank A: Compound Interest £4.6% for the first year, 0.8% for each extra year
Bank B: Compound Interest £2.1% for each year
Which bank will give Zander the most interest at the end of 3 years? (3 marks)
Bank A: 1" year $P = 30000 \quad R = 4.6 \quad n = 1 \quad F = 7$ $30000 \times \left(1 + \frac{4.6}{100}\right) = 31380$ Next two years $P = 31380 \quad R = 0.8 \quad n = 2 \quad F = 7$ $31380 \times \left(1 + \frac{6.8}{100}\right)^{2} = £31084.09$ Bank B: $P = 30000 \quad R = 2.1 \quad n = 3 \quad F = 7$ $30000 \times \left(1 + \frac{4.6}{100}\right)^{3} = £31020.997$ Zander should invest in Bank B

2. Kiera invests £7500 for 4 years.
The investment is compound interest at y % per annum.
At the end of 4 years the investment is worth £8130
Work out the value of y. $R = 1.00 \quad (1 + \frac{7}{100})^{3} = £8130$ $\frac{8120}{1500} = \left(1 + \frac{7}{100}\right)^{4} = £8130$ $\frac{8120}{1500} = \frac{8120}{1500} =$

Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. 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Fun end of term maths activities: We all know that by the end of the summer term the atmosphere in class tends to get a bit overexcitable. The benefits are manifold; this article has all you need to get started including several really fun group games specially designed for primary school maths clubs. To support you the teacher with problem solving and reasoning questions (with answers of course where relevant) and save you writing your own. 2. These summer holiday maths activities were created with parents in mind, you can also use these KS1 and KS2 holiday maths packs to give your pupils lots of fun maths activities for KS1 and KS2 The final way we've organised our KS2 maths activities for you is by national curriculum topic. Over the years, we've created lots of different fun maths activities and investigations to add to the primary teachers creative toolbox. Fun maths investigations for topical events KS2 maths problems solving investigations for Year 6 only originally that we've now adapted to be suitable across KS2. Here are some ideas to harness that excitement into some fun and lively maths investigations that recap children's knowledge from across their year's work from 2d shapes to averages and algebra. Take a look at these open ended maths investigations for Year 6 and the rest of Key Stage 2. We love what the White Rose maths hub resources provide in terms of weekly planning, but sometimes we may be looking for some more exciting and fun maths activities, whether for year 1 or year 6. Topical Maths Activities For The Term Maths investigations linked to key calendar dates this term, designed to develop reasoning and problem solving in your pupils Download Free Now! Some of you may question the place that fun has in a child's education, and whether fun maths lessons will achieve the long term goal of retention and retrieval. *Please don't post the solution so that others can still... more... @UKMathsTrust Problem Of The Week 30. To calculate the overall star rating and percentage breakdown by star, we donât the solution so that others can still... more... @UKMathsTrust Problem Of The Week 30. To calculate the overall star rating and percentage breakdown by star, we donât the solution so that others can still... more... @UKMathsTrust Problem Of The Week 30. To calculate the overall star rating and percentage breakdown by star, we donât the solution so that others can still... more... @UKMathsTrust Problem Of The Week 30. To calculate the overall star rating and percentage breakdown by star, we donât the solution so that others can still star rating and percentage breakdown by star, we donât the solution so that others can still star rating and percentage breakdown by star, we donât the solution so that others can still star rating and percentage breakdown by star, we donât the solution so that others can still star rating and percentage breakdown by star, we donât the solution so that others can still star rating and percentage breakdown by star, we donât the solution so that others can still star rating and percentage breakdown by star rating and percen This might almost be our favourite collection - one to hand out to parents; it includes home made board games, fun ways to practise times tables and lost of fun games that help children with their maths skills and require only a pencil, a piece of paper and a pack of playing cards to get going. Solution posted on Thursday. Solution posted on Thursday. Customer Reviews, including Product Star Ratings, help customers to learn more about the product and decide whether it is the right product for them. To add some variety and relevance to the maths lesson slides, questions and worksheets, you may be doing with your class every day. Some of these maths activities our tutors use in our online maths interventions, others we share here as part of our continual support for KS1 and KS2 teachers working in UK classrooms. The purpose of these maths activities, especially the event-based ones is three-fold: 1. You will know your pupils best in this context. The majority of maths activities and investigations shared below use a fun concept or relevant idea to develop children's fluency, reasoning and problem solving skills in the pursuit of learning maths. We'll continue to add to this section so bookmark this page and check back if it's useful. Fun maths lessons for KS2: a collection of our favourite fun maths lessons, suitable for Year 3 to Year 6 (ideal for after SATs) which include human bar charts, sharing 3D shapes, and planning the teacher's next holiday! Fun maths starters KS2: 15 of the best maths meeting with your class, improving their mental maths - includes a printable version to use in school. Fun SATs revision games: Even 11-year-olds need a break sometimes, so we asked some fantastic teachers on Twitter what their favourite top tips for keeping SATs revision fun were, and here's your answer - loads of great ideas in here for anyone teaching Year 6. Fun maths club activities: Provided you're armed with some creative, open ended, and ideally practical maths club activities to give children, maths clubs are not nearly as hard to set up and run as you might first imagine. In the main these tend to be open ended maths investigations, focused around key events in the primary school calendar; some of these are also slightly shorter activities but they all require pupils to do extensive problem solving and reasoning based around events in everyday life. Here are some favourite KS2 maths problems solving investigations from each term Autumn Term maths investigations year 6: Pancake Day Maths activities, World Book Day Maths activities and Easter Maths Activities Summer term maths investigations we know most of you now teach mixed ability maths activities and World Cup Maths activities with a low threshold and a high ceiling. Follow the links to find out more about the kind of maths activities and maths investigations we've got available to you. Fun maths activities to do outside, many of which can be adapted for early years to Year 6; most of these involved some kind of physical activities as well as treasure hunts for angles, ways to incorporate data handling and measurement into the school fair, and using maths skills to make mathematical connections to nature. Fun back to school maths activities teaching ideas to help you get back in the groove of maths lessons after a long summer break. Essential for anyone undertaking any kind of home learning with their children. We've also now extended our maths games collections to include KS1 maths games, KS2 maths games, and even KS3 maths games really matters in the real world. 3. Every week Third Space Learning's maths specialist tutors support thousands of pupils across hundreds of schools with weekly online 1-to-1 lessons and maths interventions designed to plug gaps and boost progress. Since 2013 we've helped over 110,000 primary and secondary school pupils become more confident, able mathematicians. Learn more or request a personalised quote for your school to speak to us about your school's needs and how we can help. You'll also be able to download one of our favourite free teaching resources - 8 low threshold high ceiling activities including the famous fox chicken grain puzzle. We've also collected the best KS2 maths challenges here for any of your pupils who are working at greater depth in KS2 maths and need further extension in your maths lessons. Holiday maths We all know about the summer brain drain and how easily children forget what we've taught them but it can be difficult to know what to do about it. *Please don't post the solution so that others can... more... @UKMathsTrust Problem Of The Week 31. * Solution posted on Thursday. *Please don't post the solution so that others can still... more... These are maths activities the whole class can get involved in, some practising quick mental maths skills, others involving more complex reasoning, plus the odd card game maths activity as well. Get started: Do you have pupils who need extra support in maths? While we've all had a class who require an upbeat tempo of fun games as part of their learning process, some children will find this a distraction if important new teaching is introduced through a game. Day after day, we're shaping happy, confident andresilient learners who discover that maths brings an exciting journey of discovery, understanding - and a lifetime of opportunities.Links @UKMathsTrust Problem Of The Week 32. It also analyses reviews to verify trustworthiness.

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